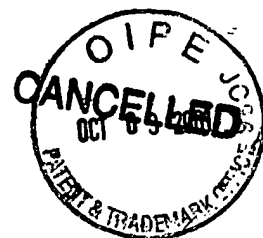
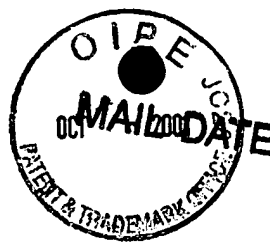




SEQUENCE LISTING



<10> Padigaru, Muralidhara
Burgess, Catherine E
Mishra, Vishnu
Li, Li
Baumgartner, Jason C
Majumder, Kumud
Spytek, Kimberly A
Tchernev, Velizar T

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<140> 09/800,321

<141> 2001-03-05

<150> 60/186,606

<151> 2000-03-03

<150> 60/221,942

<151> 2000-07-31

<150> 60/260,285

<151> 2001-01-08

<150> 60/220,263

<151> 2000-07-24

<150> 60/257,600

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<150> 60/187,295

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<150> 60/187,296

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<213> Homo sapiens

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<213> Homo sapiens

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Ile Ser Tyr Thr Val Thr Ile Phe Gly Asn Leu Thr Ile Ile Leu Val	35	40	45
Ser Arg Leu Asp Thr Lys Leu His Thr Pro Met Tyr Phe Phe Leu Thr	50	55	60
Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Cys Thr Val Pro Gln	65	70	75
Met Leu Val Asn Leu Cys Ser Ile Arg Lys Val Ile Ser Tyr Arg Gly	85	90	95
Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Gly Ala Thr Glu Tyr	100	105	110
Leu Leu Leu Ala Val Met Ser Phe Asp Arg Phe Val Ala Ile Cys Arg	115	120	125
Pro Leu His Tyr Ser Val Ile Met His Gln Arg Leu Cys Leu Gln Leu	130	135	140
Ala Ala Ala Ser Trp Val Thr Gly Phe Ser Asn Ser Val Trp Leu Ser	145	150	155
Thr Leu Thr Leu Gln Leu Pro Leu Cys Asp Pro Tyr Val Ile Asp His	165	170	175
Phe Leu Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Glu Thr	180	185	190
Thr Ala Asn Glu Ala Glu Leu Phe Leu Val Ser Glu Leu Phe His Leu	195	200	205
Ile Pro Leu Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Arg Ala	210	215	220
Val Leu Arg Ile Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr	225	230	235
Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Ser Thr Ala Val	245	250	255
Ser Val Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Gln Gly Lys			

260	265	270
Met Val Ser Leu Phe Tyr Gly Ile Ile Ala Pro Met Leu Asn Pro Leu		
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305	310	

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 <212> PRT
 <213> Homo sapiens

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 Phe Ser Asp Arg Pro Trp Leu Glu Phe Pro Leu Leu Val Val Phe Leu
 20 25 30

Ile	Ser	Tyr	Thr	Val	Thr	Ile	Phe	Gly	Asn	Leu	Thr	Ile	Ile	Leu	Val	35	40	45	
Ser	Arg	Leu	Asp	Thr	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr	50	55	60	
Asn	Leu	Ser	Leu	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Cys	Thr	Val	Pro	Gln	65	70	75	80
Met	Leu	Val	Asn	Leu	Cys	Ser	Ile	Arg	Lys	Val	Ile	Ser	Tyr	Arg	Gly	85	90	95	
Cys	Val	Ala	Gln	Leu	Phe	Ile	Phe	Leu	Ala	Leu	Gly	Ala	Thr	Glu	Tyr	100	105	110	
Leu	Leu	Leu	Ala	Val	Met	Ser	Phe	Asp	Trp	Phe	Val	Ala	Ile	Cys	Arg	115	120	125	
Pro	Leu	His	Tyr	Ser	Val	Ile	Met	His	Gln	Arg	Leu	Cys	Leu	Gln	Leu	130	135	140	
Ala	Ala	Ala	Ser	Trp	Val	Thr	Gly	Phe	Ser	Asn	Ser	Val	Trp	Leu	Ser	145	150	155	160
Thr	Leu	Thr	Leu	Gln	Leu	Pro	Leu	Cys	Asp	Pro	Tyr	Val	Ile	Asp	His	165	170	175	
Phe	Leu	Cys	Glu	Val	Pro	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Val	Glu	Thr	180	185	190	
Thr	Ala	Asn	Glu	Ala	Glu	Leu	Phe	Leu	Val	Ser	Glu	Leu	Phe	His	Leu	195	200	205	
Ile	Pro	Leu	Thr	Leu	Ile	Leu	Ile	Ser	Tyr	Ala	Phe	Ile	Val	Arg	Ala	210	215	220	
Val	Leu	Arg	Ile	Gln	Ser	Ala	Glu	Gly	Arg	Gln	Lys	Ala	Phe	Gly	Thr	225	230	235	240
Cys	Gly	Ser	His	Leu	Ile	Val	Val	Ser	Leu	Phe	Tyr	Ser	Thr	Ala	Val	245	250	255	
Ser	Val	Tyr	Leu	Gln	Pro	Pro	Ser	Pro	Ser	Ser	Lys	Asp	Gln	Gly	Lys	260	265	270	
Met	Val	Ser	Leu	Phe	Tyr	Gly	Ile	Ile	Ala	Pro	Met	Leu	Asn	Pro	Leu	275	280	285	

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 <213> Homo sapiens

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 Ile Ser Tyr Thr Val Thr Ile Phe Gly Asn Leu Thr Ile Ile Leu Val
 35 40 45
 Ser Arg Leu Asp Thr Lys Leu His Thr Pro Met Tyr Phe Phe Leu Thr
 50 55 60

Asn	Leu	Ser	Leu	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Cys	Thr	Val	Pro	Gln	65	70	75	80
Met	Leu	Val	Asn	Leu	Cys	Ser	Ile	Arg	Lys	Val	Ile	Ser	Tyr	Arg	Gly	85	90	95	
Cys	Val	Ala	Gln	Leu	Phe	Ile	Phe	Leu	Ala	Leu	Gly	Ala	Thr	Glu	Tyr	100	105	110	
Leu	Leu	Leu	Ala	Val	Met	Ser	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg	115	120	125	
Pro	Leu	His	Tyr	Ser	Val	Ile	Met	His	Gln	Arg	Leu	Cys	Leu	Gln	Leu	130	135	140	
Ala	Ala	Ala	Ser	Trp	Val	Thr	Gly	Phe	Ser	Asn	Ser	Val	Trp	Leu	Ser	145	150	155	160
Thr	Leu	Thr	Leu	Gln	Leu	Pro	Leu	Cys	Asp	Pro	Tyr	Val	Ile	Asp	His	165	170	175	
Phe	Leu	Cys	Glu	Val	Pro	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Val	Glu	Thr	180	185	190	
Thr	Ala	Asn	Glu	Ala	Glu	Leu	Phe	Leu	Val	Ser	Glu	Leu	Phe	His	Leu	195	200	205	
Ile	Pro	Leu	Thr	Leu	Ile	Leu	Ile	Ser	Tyr	Ala	Phe	Ile	Val	Arg	Ala	210	215	220	
Val	Leu	Arg	Ile	Gln	Ser	Ala	Glu	Gly	Arg	Gln	Lys	Ala	Phe	Gly	Thr	225	230	235	240
Cys	Gly	Ser	His	Leu	Ile	Val	Val	Ser	Leu	Phe	Tyr	Ser	Thr	Ala	Val	245	250	255	
Ser	Val	Tyr	Leu	Gln	Pro	Pro	Ser	Pro	Ser	Ser	Lys	Asp	Arg	Gly	Lys	260	265	270	
Met	Val	Ser	Leu	Phe	Tyr	Gly	Ile	Ile	Ala	Pro	Met	Leu	Asn	Pro	Leu	275	280	285	
Ile	Tyr	Thr	Leu	Arg	Asn	Arg	Glu	Val	Lys	Glu	Gly	Phe	Lys	Arg	Leu	290	295	300	
Val	Ala	Arg	Val	Phe	Leu	Ile	Lys	Lys								305	310		

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 ctccatacaa tcatgtactt tttccttagt cacttgtcct tgacagactt ctgtttttcc 240
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 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Ile Ile Ile Arg Leu Asn Ser Lys Leu His Thr Ile Met Tyr Phe Phe
 50 55 60
 Leu Ser His Leu Ser Leu Thr Asp Phe Cys Phe Ser Thr Val Val Thr
 65 70 75 80
 Pro Lys Leu Leu Glu Asn Leu Val Val Glu Tyr Arg Thr Ile Ser Phe

	85		90		95
Ser Gly Cys Ile Met Gln Phe Cys Phe Ala Cys Ile Phe Gly Val Thr					
	100		105		110
Glu Thr Phe Met Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Ala Val					
	115		120		125
Cys Lys Pro Leu Leu Tyr Thr Thr Ile Met Ser Gln Lys Leu Cys Ala					
	130		135		140
Leu Leu Val Ala Gly Ser Tyr Thr Trp Gly Ile Val Cys Ser Leu Ile					
145		150		155	160
Leu Thr Tyr Phe Leu Leu Asp Leu Ser Phe Cys Glu Ser Thr Phe Ile					
	165		170		175
Asn Asn Phe Ile Cys Asp His Ser Val Ile Val Ser Ala Ser Tyr Ser					
	180		185		190
Asp Pro Tyr Ile Ser Gln Arg Leu Cys Phe Ile Ile Ala Ile Phe Asn					
	195		200		205
Glu Val Ser Ser Leu Ile Ile Ile Leu Thr Ser Tyr Met Leu Ile Phe					
	210		215		220
Thr Thr Ile Met Lys Met Arg Ser Ala Ser Gly Arg Gln Lys Thr Phe					
225		230		235	240
Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr					
	245		250		255
Ile Leu Phe Leu Tyr Cys Val Pro Asn Pro Lys Thr Ser Ser Leu Ile					
	260		265		270
Val Thr Val Ala Ser Val Phe Tyr Thr Val Ala Ile Pro Met Leu Asn					
	275		280		285
Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Asn Met Phe Glu					
	290		295		300
Lys Leu Val Val Thr Lys Leu Ile Tyr His					
305		310			

<210> 9
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<213> Homo sapiens

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acaatcatgt actttttcct tagtcacttg tccttgacag acttctgttt ttccactgta 240
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<210> 10

<211> 314

<212> PRT

<213> Homo sapiens

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      20             25            30
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Phe Leu Phe Val Tyr Thr Val Thr Val Val Gly Asn Leu Gly Met Ile
      35             40            45
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Ile Ile Ile Arg Leu Asn Ser Lys Leu His Thr Ile Met Tyr Phe Phe
      50             55            60
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Leu Ser His Leu Ser Leu Thr Asp Phe Cys Phe Ser Thr Val Val Thr
      65             70            75            80
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Pro Lys Leu Leu Glu Asn Leu Val Val Glu Tyr Arg Thr Ile Ser Phe
      85             90            95
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Ser Gly Cys Ile Met Gln Phe Cys Phe Ala Cys Ile Phe Gly Val Thr
      100            105           110
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Gly Thr Phe Met Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Ala Val
 115 120 125

Cys Lys Pro Leu Leu Tyr Thr Thr Ile Met Ser Gln Lys Leu Cys Ala
 130 135 140

Leu Leu Val Ala Gly Ser Tyr Thr Trp Gly Ile Val Cys Ser Leu Ile
 145 150 155 160

Leu Thr Tyr Phe Leu Leu Asp Leu Ser Phe Cys Glu Ser Thr Phe Ile
 165 170 175

Asn Asn Phe Ile Cys Asp His Ser Val Ile Val Ser Ala Ser Tyr Ser
 180 185 190

Asp Pro Tyr Ile Ser Gln Arg Leu Cys Phe Ile Ile Ala Ile Phe Asn
 195 200 205

Glu Val Ser Ser Leu Ile Ile Ile Leu Thr Ser Tyr Met Leu Ile Phe
 210 215 220

Thr Thr Ile Met Lys Met Arg Ser Ala Ser Gly Arg Gln Lys Thr Phe
 225 230 235 240

Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr
 245 250 255

Ile Leu Phe Leu Tyr Cys Val Pro Asn Pro Lys Thr Ser Ser Leu Ile
 260 265 270

Val Thr Val Ala Ser Val Phe Tyr Thr Val Ala Ile Pro Met Leu Asn
 275 280 285

Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Asn Met Phe Glu
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Lys Leu Val Val Thr Lys Leu Ile Tyr His
 305 310

<210> 11
 <211> 954
 <212> DNA
 <213> Homo sapiens

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<210> 12
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 <212> PRT
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      20              25              30

Phe Leu Phe Val Tyr Thr Val Thr Val Val Gly Asn Leu Gly Met Ile
      35              40              45

Ile Ile Ile Arg Leu Asn Ser Lys Leu His Thr Ile Met Tyr Phe Phe
      50              55              60

Leu Ser His Leu Ser Leu Thr Asp Phe Cys Phe Ser Thr Val Val Thr
      65              70              75              80

Pro Lys Leu Leu Glu Asn Leu Val Val Glu Tyr Arg Thr Ile Ser Phe
      85              90              95

Ser Gly Cys Ile Met Gln Phe Cys Phe Ala Cys Ile Phe Gly Val Thr
      100             105             110

Gly Thr Phe Met Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Val Val
      115             120             125

Cys Lys Pro Leu Leu Tyr Thr Thr Ile Met Ser Gln Lys Leu Cys Ala
      130             135             140

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Leu Leu Val Ala Gly Ser Tyr Thr Trp Gly Ile Val Cys Ser Leu Ile
 145 150 155 160

Leu Thr Tyr Phe Leu Leu Asp Leu Ser Phe Cys Glu Ser Thr Phe Ile
 165 170 175

Asn Asn Phe Ile Cys Asp His Ser Val Ile Val Ser Ala Ser Tyr Ser
 180 185 190

Asp Pro Tyr Ile Ser Gln Arg Leu Cys Phe Ile Ile Ala Ile Phe Asn
 195 200 205

Glu Val Ser Ser Leu Ile Ile Ile Leu Thr Ser Tyr Met Leu Ile Phe
 210 215 220

Thr Thr Ile Met Lys Met Arg Ser Ala Ser Gly Arg Gln Lys Thr Phe
 225 230 235 240

Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr
 245 250 255

Ile Leu Phe Leu Tyr Cys Val Pro Asn Pro Lys Thr Ser Ser Leu Ile
 260 265 270

Val Thr Val Ala Ser Val Phe Tyr Thr Val Ala Ile Pro Met Leu Asn
 275 280 285

Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Asn Met Phe Glu
 290 295 300

Lys Leu Val Val Thr Lys Leu Ile Tyr His
 305 310

<210> 13
 <211> 954
 <212> DNA
 <213> Homo sapiens

<400> 13
 agtatcatga tggcatctga aagaaatcaa agcagcacac ccacttttat tctcttgggt 60
 ttttcagaat acccagaaat ccagggtcca ctctttctgg ttttcttggt cgtctacaca 120
 gtcactgtag tggggaactt gggcatgata ataatcatca gactcaattc aaaactccat 180
 acaatcatgt actttttcct tagtcacttg tccttgacag acttctgttt ttccactgta 240
 gttacaccta aactgttgga gaacttggtt gtggaatata gaaccatctc tttctctgggt 300
 tgcacatcatgc aattttgttt tgcttgcat tttggagtga caggaacttt catgttagca 360
 gcgatggcct atgaccgttt tgtggtagtt tgtaaaccct tgctgtatac cactattatg 420

tctcagaagc tctgtgctct tctgggtggct gggtcctata catgggggat agtgtgctcc 480
ctgatactca catatcttct tcttgactta tcgttttgtg aatctacctt cataaataat 540
tttatctgtg accactctgt aattgtttct gcctcctact cagaccccta tatcagccag 600
aggctatgct ttattattgc catattcaat gaggtgagca gcctaattat cattctgaca 660
tcatatatgc ttattttcac taccattatg aagatgcat ctgcaagtgg gcgccagaaa 720
actttctcca cctgtgcctc ccacctgaca gccatcacta tcttccatgg aactatcctt 780
ttcctttact gtgttcctaa tcttaaaact tctagcctca tagttacagt ggcttctgtg 840
ttttacacag tggcgattcc aatgctgaac ccattgatct acagccttag gaacaaagac 900
atcaataaca tgtttgaaaa attagttgtc accaaattga tttaccactg aata 954

<210> 14
<211> 314
<212> PRT
<213> Homo sapiens

<400> 14
Met Met Ala Ser Glu Arg Asn Gln Ser Ser Thr Pro Thr Phe Ile Leu
1 5 10 15
Leu Gly Phe Ser Glu Tyr Pro Glu Ile Gln Val Pro Leu Phe Leu Val
20 25 30
Phe Leu Phe Val Tyr Thr Val Thr Val Val Gly Asn Leu Gly Met Ile
35 40 45
Ile Ile Ile Arg Leu Asn Ser Lys Leu His Thr Ile Met Tyr Phe Phe
50 55 60
Leu Ser His Leu Ser Leu Thr Asp Phe Cys Phe Ser Thr Val Val Thr
65 70 75 80
Pro Lys Leu Leu Glu Asn Leu Val Val Glu Tyr Arg Thr Ile Ser Phe
85 90 95
Ser Gly Cys Ile Met Gln Phe Cys Phe Ala Cys Ile Phe Gly Val Thr
100 105 110
Gly Thr Phe Met Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Val Val
115 120 125
Cys Lys Pro Leu Leu Tyr Thr Thr Ile Met Ser Gln Lys Leu Cys Ala
130 135 140
Leu Leu Val Ala Gly Ser Tyr Thr Trp Gly Ile Val Cys Ser Leu Ile
145 150 155 160
Leu Thr Tyr Phe Leu Leu Asp Leu Ser Phe Cys Glu Ser Thr Phe Ile

	165		170		175
Asn Asn Phe Ile Cys Asp His Ser Val Ile Val Ser Ala Ser Tyr Ser					
	180		185		190
Asp Pro Tyr Ile Ser Gln Arg Leu Cys Phe Ile Ile Ala Ile Phe Asn					
	195		200		205
Glu Val Ser Ser Leu Ile Ile Ile Leu Thr Ser Tyr Met Leu Ile Phe					
	210		215		220
Thr Thr Ile Met Lys Met Arg Ser Ala Ser Gly Arg Gln Lys Thr Phe					
	225		230		235
Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr					
	245		250		255
Ile Leu Phe Leu Tyr Cys Val Pro Asn Pro Lys Thr Ser Ser Leu Ile					
	260		265		270
Val Thr Val Ala Ser Val Phe Tyr Thr Val Ala Ile Pro Met Leu Asn					
	275		280		285
Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Asn Met Phe Glu					
	290		295		300
Lys Leu Val Val Thr Lys Leu Ile Tyr His					
	305		310		

<210> 15
 <211> 960
 <212> DNA
 <213> Homo sapiens

<400> 15
 ctaacaacaa ccatgtcatt agctgaagga aatcagagtt ctggagccgt atttaccctc 60
 ttgggtttct cagaatatgc agacctccag gttcctctgt tcctgggtctt cctgaccatc 120
 tacacaatca ctgtattggg aaacctgggc atgatcatga tcatcaggat caaccccaaa 180
 ctccacaccc gcatgtactt tttcctcagc cacttgtcct ttgttgattt ctgttattcc 240
 accacagtta caccctaaact gctggagaac ttggttgagg aagacagAAC catctccttc 300
 acaggatgca tcatgcaatt cttcctggcg tgtatatgtg cagtggcaga aacattcatg 360
 ctggcagtga tggcctatga tagatacgtg gcagtgtgta acccttttgct ctacacagtt 420
 gtcagggtccc agaaactctg tgcattcatta gtggcagggc cctacacatg ggggtataatc 480
 tcttctctga cactcaccta tttcctcttg tcattatcct tctgtgggtc taacatcatc 540
 aataattttg tctgtgagca ctctgtcatc atctctgtct cctgtctctga cccctacatc 600
 agccaaatgc tttgttttgt cattgcaata ttcaatgagg tgagcagctt gggagtcac 660
 ctactacct atattttcat ctttattgct gtcataaaaa tgccttctgc tgttgggcac 720

caaaaagctt tctctacctg tgcttccac ctgactgccca tcactatttt ccacgggact 780
gtcctgttcc tttattgtgt acccaactcc aaaaactcat ggctcatagt caaagtaggt 840
tctgtgtttt atacagtcac catccccacg ttgaaccctt taacctacag cctcaggaac 900
aaagacgtga aagagagtgt tcgaaagtta atgaatcact caatacaatt ttgttaaaga 960

<210> 16
<211> 314
<212> PRT
<213> Homo sapiens

<400> 16
Met Ser Leu Ala Glu Gly Asn Gln Ser Ser Gly Ala Val Phe Thr Leu
1 5 10 15
Leu Gly Phe Ser Glu Tyr Ala Asp Leu Gln Val Pro Leu Phe Leu Val
20 25 30
Phe Leu Thr Ile Tyr Thr Ile Thr Val Leu Gly Asn Leu Gly Met Ile
35 40 45
Met Ile Ile Arg Ile Asn Pro Lys Leu His Thr Arg Met Tyr Phe Phe
50 55 60
Leu Ser His Leu Ser Phe Val Asp Phe Cys Tyr Ser Thr Thr Val Thr
65 70 75 80
Pro Lys Leu Leu Glu Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe
85 90 95
Thr Gly Cys Ile Met Gln Phe Phe Leu Ala Cys Ile Cys Ala Val Ala
100 105 110
Glu Thr Phe Met Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val
115 120 125
Cys Asn Pro Leu Leu Tyr Thr Val Val Arg Ser Gln Lys Leu Cys Ala
130 135 140
Ser Leu Val Ala Gly Pro Tyr Thr Trp Gly Ile Ile Ser Ser Leu Thr
145 150 155 160
Leu Thr Tyr Phe Leu Leu Ser Leu Ser Phe Cys Gly Ser Asn Ile Ile
165 170 175
Asn Asn Phe Val Cys Glu His Ser Val Ile Ile Ser Val Ser Cys Ser
180 185 190

Asp Pro Tyr Ile Ser Gln Met Leu Cys Phe Val Ile Ala Ile Phe Asn
 195 200 205
 Glu Val Ser Ser Leu Gly Val Ile Leu Thr Thr Tyr Ile Phe Ile Phe
 210 215 220
 Ile Ala Val Ile Lys Met Pro Ser Ala Val Gly His Gln Lys Ala Phe
 225 230 235 240
 Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr
 245 250 255
 Val Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Trp Leu Ile
 260 265 270
 Val Lys Val Gly Ser Val Phe Tyr Thr Val Ile Ile Pro Thr Leu Asn
 275 280 285
 Pro Leu Thr Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ser Val Arg
 290 295 300
 Lys Leu Met Asn His Ser Ile Gln Phe Cys
 305 310

<210> 17
 <211> 968
 <212> DNA
 <213> Homo sapiens

<400> 17
 gggaaacatg caaaaccaa gctttgtaac tgagtttgct ctctggggac tttcacagaa 60
 tccaaatgtt caggaaatag tatttggtgt atttttgttt gtctacattg caactgttgg 120
 gggcaacatg ctaattgtag taaccattct cagcagccct gctcttctgg tgtctctat 180
 gtacttcttc ttgggcttcc tgtccttcc ggatgcgtgc ttctcatctg tcatcaccac 240
 aaagatgatt gtagactccc tctatgtgac aaaaaccatc tcttttgaag gctgcatgat 300
 gcagctcttt gctgaacact tcttgctgg ggtggagggtg attgtcctca cagccatggc 360
 ctatgatcgt tatgtggcca tttgcaagcc cttgcattac tcttctatca tgaacaggag 420
 gctctgtggc attctgatgg gggtagcctg gacagggggc ctcttgcatc ccatgataca 480
 aattcttttt actttccagc ttcccttttg tggccccaat gtcacatc actttatgtg 540
 tgacttgtag ccgttactgg agcttgctg cactgatac cacatctttg gcctcatggg 600
 ggtcatcaac agtgggttta tctgcatcat aaacttctcc ttgttgcttg tctcctatgc 660
 tgtcatcttg ctctctctga gaacacacag ttctgaagg cgctggaaag ctctctccac 720
 ctgtggatct cacattgctg ttgtgatttt gttctttgtc ccatgcatat ttgtatatac 780
 acgacctcca tctgcttttt cccttgacaa aatggcgga atattttata tcatcttaaa 840
 tcccttgctc aatcctttga tttacacttt caggaataag gaagtaaaac aggccatgag 900
 gagaatatgg aacagactga tgggtggttc tgatgagaaa gaaaatatta aactttaaaa 960
 aatccaaa 968

<210> 18
 <211> 316
 <212> PRT
 <213> Homo sapiens

<400> 18
 Met Gln Asn Gln Ser Phe Val Thr Glu Phe Val Leu Leu Gly Leu Ser
 1 5 10 15
 Gln Asn Pro Asn Val Gln Glu Ile Val Phe Val Val Phe Leu Phe Val
 20 25 30
 Tyr Ile Ala Thr Val Gly Gly Asn Met Leu Ile Val Val Thr Ile Leu
 35 40 45
 Ser Ser Pro Ala Leu Leu Val Ser Pro Met Tyr Phe Phe Leu Gly Phe
 50 55 60
 Leu Ser Phe Leu Asp Ala Cys Phe Ser Ser Val Ile Thr Pro Lys Met
 65 70 75 80
 Ile Val Asp Ser Leu Tyr Val Thr Lys Thr Ile Ser Phe Glu Gly Cys
 85 90 95
 Met Met Gln Leu Phe Ala Glu His Phe Phe Ala Gly Val Glu Val Ile
 100 105 110
 Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro
 115 120 125
 Leu His Tyr Ser Ser Ile Met Asn Arg Arg Leu Cys Gly Ile Leu Met
 130 135 140
 Gly Val Ala Trp Thr Gly Gly Leu Leu His Ser Met Ile Gln Ile Leu
 145 150 155 160
 Phe Thr Phe Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Phe
 165 170 175
 Met Cys Asp Leu Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr His
 180 185 190
 Ile Phe Gly Leu Met Val Val Ile Asn Ser Gly Phe Ile Cys Ile Ile
 195 200 205
 Asn Phe Ser Leu Leu Leu Val Ser Tyr Ala Val Ile Leu Leu Ser Leu

210	215	220	
Arg Thr His Ser Ser Glu Gly Arg Trp Lys Ala Leu Ser Thr Cys Gly			
225	230	235	240
Ser His Ile Ala Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Val			
	245	250	255
Tyr Thr Arg Pro Pro Ser Ala Phe Ser Leu Asp Lys Met Ala Ala Ile			
	260	265	270
Phe Tyr Ile Ile Leu Asn Pro Leu Leu Asn Pro Leu Ile Tyr Thr Phe			
	275	280	285
Arg Asn Lys Glu Val Lys Gln Ala Met Arg Arg Ile Trp Asn Arg Leu			
290	295	300	
Met Val Val Ser Asp Glu Lys Glu Asn Ile Lys Leu			
305	310	315	

<210> 19
 <211> 968
 <212> DNA
 <213> Homo sapiens

<400> 19
 gggaaacatg caaaaccaa gctttgtaac tgagtttgtc ctctctgggac tttcacagaa 60
 tccaaatggt caggaaatag tatttggtgt atttttgttt gtctacattg caactgttgg 120
 gggcaacatg ctaattgtag taaccattct cagcagccct gctcttctgg tgtctcctat 180
 gtactttcttc ttgggcttcc tgtccttcc ggatgcgtgc ttctcatctg tcatcacccc 240
 aaagatgatt gtagactccc tctatgtgac aaagaccatc tcttttgaag gctgcatgat 300
 gcagctcttt gctgaacact tctttgctgg ggtggagggtg attgtcctca cagccatggc 360
 ctatgatcgt tatgtggcca ttgcaagcc cttgcattac tcttctatca tgaacaggag 420
 gctctgtggc attctgatgg gggtagcctg gacagggggc ctcttgcatc ccatgataca 480
 aattcttttt actttccagc ttcccttttg tggccccaat gtcacatc actttatgtg 540
 tgacttgtag ccgttactgg agcttgctg cactgatact cacatctttg gcctcatggt 600
 ggtcatcaac agtgggttta tctgcatcat aaacttctcc ttgttgcttg tctcctatgc 660
 tgtcatcttg ctctctctga gaacacacag ttctgaaggg cgctggaaaag ctctctccac 720
 ctgtggatct cacattgctg ttgtgatttt gttctttgtc ccatgcatat ttgtatatac 780
 acgacctcca tctgcttttt cccttgacaa aatggcgga atattttata tcatcttaaa 840
 tcccttgctc aatcctttga ttacacttt caggaataag gaagtaaaac aggccatgag 900
 gagaatatgg aacagactga tgggtggttc tgatgagaaa gaaaatatta aactttaaaa 960
 aatccaaa 968

<210> 20
 <211> 946

<212> DNA
 <213> Homo sapiens

<400> 20
 aaaacccatgc aactgaataa taatgtgact gagttcattc tgcttggatt gacacaggat 60
 ccttttttggga agaaaatagt gtttgttatt tttttgcgtc tctacttggg aacactggtg 120
 ggtaatttgc taatcattat tagtgtcaag gccagccagg cacttaagaa cccaatgttc 180
 ttcttccttt tctacttatac tttatctgat acttgccctc ctacttccat agccccctaga 240
 atgattgtgg atgccctttt gaagaagaca actatctcct tcagcgagtg catgatccaa 300
 gtcttttcat cccatgtcct tggctgcctg gagatcttca tcctcatcct cacggctggt 360
 gaccgctatg tggacatctg taagccccctg cactacatga ccatcataag ccagtgggtc 420
 tgtggtggtt tgatggctgt ggcctgggtg ggatcctgtg tgcattcttt agttcagatt 480
 tttcttgccc tgagtttgcc attctgtggc cccaatgtga tcaatcactg tttctgtgac 540
 ttgcagccct tgttgaaaca agcctgttca gaaacctatg tggttaacct actcctggtt 600
 tccaatagtg gggccatttg tgcagtgagt tatgtcatgc taatattctc ctatgtcatc 660
 ttcttgcatt ctctgagaaa ccacagtgtc gaagtataa agaaagcact ttccacatgt 720
 gtctcccaca tcattgtggt catcttggtc tttggacctt gcatatttat gtacacatgc 780
 cctgcaaccg tattcccat ggataagatg atagctgtat tttatacagt tggaacatct 840
 tttctcaacc ctgtgattta cacgctgaag aatacagaag tgaaaagtgc catgaggaag 900
 ctttgaggca agaaattgat cacagatgac aaaagataaa tgaagg 946

<210> 21
 <211> 310
 <212> PRT
 <213> Homo sapiens

<400> 21
 Met Gln Leu Asn Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15
 Gln Asp Pro Phe Trp Lys Lys Ile Val Phe Val Ile Phe Leu Arg Leu
 20 25 30
 Tyr Leu Gly Thr Leu Leu Gly Asn Leu Leu Ile Ile Ile Ser Val Lys
 35 40 45
 Ala Ser Gln Ala Leu Lys Asn Pro Met Phe Phe Phe Leu Phe Tyr Leu
 50 55 60
 Ser Leu Ser Asp Thr Cys Leu Ser Thr Ser Ile Ala Pro Arg Met Ile
 65 70 75 80
 Val Asp Ala Leu Leu Lys Lys Thr Thr Ile Ser Phe Ser Glu Cys Met
 85 90 95
 Ile Gln Val Phe Ser Ser His Val Phe Gly Cys Leu Glu Ile Phe Ile
 100 105 110

Leu Ile Leu Thr Ala Val Asp Arg Tyr Val Asp Ile Cys Lys Pro Leu
 115 120 125

His Tyr Met Thr Ile Ile Ser Gln Trp Val Cys Gly Val Leu Met Ala
 130 135 140

Val Ala Trp Val Gly Ser Cys Val His Ser Leu Val Gln Ile Phe Leu
 145 150 155 160

Ala Leu Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Cys Phe
 165 170 175

Cys Asp Leu Gln Pro Leu Leu Lys Gln Ala Cys Ser Glu Thr Tyr Val
 180 185 190

Val Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ala Val Ser
 195 200 205

Tyr Val Met Leu Ile Phe Ser Tyr Val Ile Phe Leu His Ser Leu Arg
 210 215 220

Asn His Ser Ala Glu Val Ile Lys Lys Ala Leu Ser Thr Cys Val Ser
 225 230 235 240

His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Met Tyr
 245 250 255

Thr Cys Pro Ala Thr Val Phe Pro Met Asp Lys Met Ile Ala Val Phe
 260 265 270

Tyr Thr Val Gly Thr Ser Phe Leu Asn Pro Val Ile Tyr Thr Leu Lys
 275 280 285

Asn Thr Glu Val Lys Ser Ala Met Arg Lys Leu Trp Ser Lys Lys Leu
 290 295 300

Ile Thr Asp Asp Lys Arg
 305 310

<210> 22
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 22
 tataaattat gtcatttcag gtgacttata tgttctatct acactggacc atggaaaaaa 60

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gcaataatag cactttggtt attctcttgg gggtttccca aaataagaac attgaagtcc 120
tctgctttgt attatttttg ttttgctaca ttgctatttg gatgggaaac ttactcataa 180
tgattttctat cagctgcacc cagctcattc accaaccat gtattttctt ctcaattacc 240
tctcactctc cgacctttgc tacacatcca cagtgacccc caaattaatg gttgacttac 300
tggcagaaag aaagaccatt tcctataata actgtatgat acaactcttt accacccatt 360
tttttgaggg catagagatc ttcattctca cagggatggc ctatgaccgc tatgtggcca 420
tttgcaagcc cctgcactac accattatta tgagcaggca aaagtgtaac acaatcatca 480
tagtttggtg tactggggga tttatacatt ctgccagtca gtttcttctc accatctttg 540
taccattttg tggcccaaat gagatagatc actacttctg tgatgtgtat cctttgctga 600
aattggcctg ttctaataa cacatgatag gtctcttagt cattgctaata tcaggcttaa 660
ttgctttggt gacatttggt gtcttggtgt tgtcttatgt ttttatattg tataccatca 720
gagcatactc tgcagagaga cgcagcaaag ctcttgccac ttgtagttct catgtaattg 780
ttgtggctct gttttttgct cctgcattgt tcatttacat tagaccgggc acaacattct 840
cagaagataa agtgtttgcc cttttttata ccatcattgc tcccatgttc aacctctca 900
tatacacgct gagaaacaca gagatgaaga acgccatgag gaaagtgtgg tgttgtcaaa 960
tactcctgaa aagaaatcaa cttttctgaa ttgtttctgc 1000

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<210> 23
<211> 326
<212> PRT
<213> Homo sapiens

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<400> 23
Met Ser Phe Gln Val Thr Tyr Met Phe Tyr Leu His Trp Thr Met Glu
  1             5             10             15

Lys Ser Asn Asn Ser Thr Leu Phe Ile Leu Leu Gly Phe Ser Gln Asn
          20             25             30

Lys Asn Ile Glu Val Leu Cys Phe Val Leu Phe Leu Phe Cys Tyr Ile
          35             40             45

Ala Ile Trp Met Gly Asn Leu Leu Ile Met Ile Ser Ile Thr Cys Thr
          50             55             60

Gln Leu Ile His Gln Pro Met Tyr Phe Phe Leu Asn Tyr Leu Ser Leu
          65             70             75             80

Ser Asp Leu Cys Tyr Thr Ser Thr Val Thr Pro Lys Leu Met Val Asp
          85             90             95

Leu Leu Ala Glu Arg Lys Thr Ile Ser Tyr Asn Asn Cys Met Ile Gln
          100            105            110

Leu Phe Thr Thr His Phe Phe Gly Gly Ile Glu Ile Phe Ile Leu Thr
          115            120            125

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Gly Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr
 130 135 140

Thr Ile Ile Met Ser Arg Gln Lys Cys Asn Thr Ile Ile Ile Val Cys
 145 150 155 160

Cys Thr Gly Gly Phe Ile His Ser Ala Ser Gln Phe Leu Leu Thr Ile
 165 170 175

Phe Val Pro Phe Cys Gly Pro Asn Glu Ile Asp His Tyr Phe Cys Asp
 180 185 190

Val Tyr Pro Leu Leu Lys Leu Ala Cys Ser Asn Ile His Met Ile Gly
 195 200 205

Leu Leu Val Ile Ala Asn Ser Gly Leu Ile Ala Leu Val Thr Phe Val
 210 215 220

Val Leu Leu Leu Ser Tyr Val Phe Ile Leu Tyr Thr Ile Arg Ala Tyr
 225 230 235 240

Ser Ala Glu Arg Arg Ser Lys Ala Leu Ala Thr Cys Ser Ser His Val
 245 250 255

Ile Val Val Val Leu Phe Phe Ala Pro Ala Leu Phe Ile Tyr Ile Arg
 260 265 270

Pro Val Thr Thr Phe Ser Glu Asp Lys Val Phe Ala Leu Phe Tyr Thr
 275 280 285

Ile Ile Ala Pro Met Phe Asn Pro Leu Ile Tyr Thr Leu Arg Asn Thr
 290 295 300

Glu Met Lys Asn Ala Met Arg Lys Val Trp Cys Cys Gln Ile Leu Leu
 305 310 315 320

Lys Arg Asn Gln Leu Phe
 325

<210> 24
 <211> 868
 <212> DNA
 <213> Homo sapiens

<400> 24
 gagccattcc atggaaaaaa taaacaacgt aactgaattc attttctggg gtctttctca 60
 gagcccagag attgagaaag tttgttttgt ggtgttttct ttcttctaca taatcattct 120

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tctgggaaat ctctcatca tgctgacagt ttgcctgagc aacctgttta agtcacccat 180
gtattttcttt ctacagcttct tgtcttttgt ggacatttgt tactcttcag tcacagctcc 240
caagatgatt gttgacctgt tagcaaagga caaaaccatc tcctatgtgg ggtgcatgtt 300
gcaactgctt ggagtacatt tctttgggtg cactgagatc ttcacctta ctgtaatggc 360
ctatgatcgt tatgtggcta tctgtaaacc cctacattat atgaccatca tgaaccggga 420
gacatgcaat aaaatgttat tagggacgtg ggtaggtggg ttcttacct ccattatcca 480
agtggctctg gtagtccaac tacccttttg tggacccaat gagatagatc actacttttg 540
tgatgttcac cctgtgttga aacttgacctg cacagaaaca tacattgttg gtgttggtgt 600
gacagccaac agtggtagca ttgctctggg gagttttgtt atcttgctaa tctcctacag 660
catcatacta gtttcctga gaaagcagtc agcagaaggc aggcgcaaag ccctctccac 720
ctgtggctcc cacattgcca tggctgttat cttttcgagc ccctgtactt ttatgtacat 780
gcgccctgat acgacctttt cagaggataa gatgggtggc gtattttaca ccattatcac 840
tcccatgtta aatcctctga ttataca 868

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<210> 25
 <211> 286
 <212> PRT
 <213> Homo sapiens

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<400> 25
Met Glu Lys Ile Asn Asn Val Thr Glu Phe Ile Phe Trp Gly Leu Ser
  1               5               10              15

Gln Ser Pro Glu Ile Glu Lys Val Cys Phe Val Val Phe Ser Phe Phe
      20               25              30

Tyr Ile Ile Ile Leu Leu Gly Asn Leu Leu Ile Met Leu Thr Val Cys
    35               40              45

Leu Ser Asn Leu Phe Lys Ser Pro Met Tyr Phe Phe Leu Ser Phe Leu
    50               55              60

Ser Phe Val Asp Ile Cys Tyr Ser Ser Val Thr Ala Pro Lys Met Ile
    65               70              75              80

Val Asp Leu Leu Ala Lys Asp Lys Thr Ile Ser Tyr Val Gly Cys Met
      85               90              95

Leu Gln Leu Leu Gly Val His Phe Phe Gly Cys Thr Glu Ile Phe Ile
    100              105             110

Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
    115              120             125

His Tyr Met Thr Ile Met Asn Arg Glu Thr Cys Asn Lys Met Leu Leu
    130              135             140

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Gly Thr Trp Val Gly Gly Phe Leu His Ser Ile Ile Gln Val Ala Leu			
145	150	155	160
Val Val Gln Leu Pro Phe Cys Gly Pro Asn Glu Ile Asp His Tyr Phe			
	165	170	175
Cys Asp Val His Pro Val Leu Lys Leu Ala Cys Thr Glu Thr Tyr Ile			
	180	185	190
Val Gly Val Val Val Thr Ala Asn Ser Gly Thr Ile Ala Leu Gly Ser			
	195	200	205
Phe Val Ile Leu Leu Ile Ser Tyr Ser Ile Ile Leu Val Ser Leu Arg			
	210	215	220
Lys Gln Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ser			
225	230	235	240
His Ile Ala Met Val Val Ile Phe Ser Ser Pro Cys Thr Phe Met Tyr			
	245	250	255
Met Arg Pro Asp Thr Thr Phe Ser Glu Asp Lys Met Val Ala Val Phe			
	260	265	270
Tyr Thr Ile Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr			
	275	280	285

<210> 26
 <211> 948
 <212> DNA
 <213> Homo sapiens

<400> 26
 actctctgaa tggatcacca catgcctccc aacaatgtga ctgaattcat tctcttgggg 60
 ctcacacaga atccacactt gcagaaaata ctctttattg tatttttatt tatttttcta 120
 ttaccatgc tggccaatct gttcattgtc atcaccatct cctgtagccc cacactttca 180
 tcacccatgt acttctttct cacttactta tcctttatag atgcctocta cacctctgtc 240
 acaaccccca aaatgatcac cgacctgtc taccagagga gaactatttc cttggctggc 300
 tgcttgactc agctctttgt ggagcacttg ctgggaggct cagagatcat cctccttatt 360
 gtcattggcct atgaccgcta cgtggccatc tgcaagcccc tgcactacac aaccattatg 420
 caacaaggga tctgccacct tctggtggtg atagcctgga ttggaggcat cctgcatgcc 480
 actgtgcaga ttcttttcat gaccgacttg cccttctgtg gtcccaatgt cattgaccac 540
 tttatgtgtg atctcttccc attggtgaaa cttgcctgca gagacaccta cagacttggg 600
 atgctggtgg cagccaacag tggagccatg tgcttgctca tcttttcctt gctcgtcatc 660
 tcctacatag tcctcctgag ctccctgaaa tcctatagct ctgaaggaca gcgcaaagcc 720
 ctctccacct gtggctccca ctttactgtc gttgtactct tttttgtgcc ttgcatattc 780
 acctacatgc atcctgtggt cacctactct gtggacaagt tgggtgactgt gttctttgca 840

atcctcactc ccatgttaaa tcctataatt tacactgtga gaaacacaga ggtaaaaaat 900
 gtcgtgagga gtttgttgag gaaaagagta acagtttatg cataatgg 948

<210> 27
 <211> 311
 <212> PRT
 <213> Homo sapiens

<400> 27
 Met Asp His His Met Pro Pro Asn Asn Val Thr Glu Phe Ile Leu Leu
 1 5 10 15
 Gly Leu Thr Gln Asn Pro His Leu Gln Lys Ile Leu Phe Ile Val Phe
 20 25 30
 Leu Phe Ile Phe Leu Phe Thr Met Leu Ala Asn Leu Phe Ile Val Ile
 35 40 45
 Thr Ile Ser Cys Ser Pro Thr Leu Ser Ser Pro Met Tyr Phe Phe Leu
 50 55 60
 Thr Tyr Leu Ser Phe Ile Asp Ala Ser Tyr Thr Ser Val Thr Thr Pro
 65 70 75 80
 Lys Met Ile Thr Asp Leu Leu Tyr Gln Arg Arg Thr Ile Ser Leu Ala
 85 90 95
 Gly Cys Leu Thr Gln Leu Phe Val Glu His Leu Leu Gly Gly Ser Glu
 100 105 110
 Ile Ile Leu Leu Ile Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
 115 120 125
 Lys Pro Leu His Tyr Thr Thr Ile Met Gln Gln Gly Ile Cys His Leu
 130 135 140
 Leu Val Val Ile Ala Trp Ile Gly Gly Ile Leu His Ala Thr Val Gln
 145 150 155 160
 Ile Leu Phe Met Thr Asp Leu Pro Phe Cys Gly Pro Asn Val Ile Asp
 165 170 175
 His Phe Met Cys Asp Leu Phe Pro Leu Leu Lys Leu Ala Cys Arg Asp
 180 185 190
 Thr Tyr Arg Leu Gly Met Leu Val Ala Ala Asn Ser Gly Ala Met Cys
 195 200 205

Leu Leu Ile Phe Ser Leu Leu Val Ile Ser Tyr Ile Val Ile Leu Ser
 210 215 220

Ser Leu Lys Ser Tyr Ser Ser Glu Gly Gln Arg Lys Ala Leu Ser Thr
 225 230 235 240

Cys Gly Ser His Phe Thr Val Val Val Leu Phe Phe Val Pro Cys Ile
 245 250 255

Phe Thr Tyr Met His Pro Val Val Thr Tyr Ser Val Asp Lys Leu Val
 260 265 270

Thr Val Phe Phe Ala Ile Leu Thr Pro Met Leu Asn Pro Ile Ile Tyr
 275 280 285

Thr Val Arg Asn Thr Glu Val Lys Asn Val Val Arg Ser Leu Leu Arg
 290 295 300

Lys Arg Val Thr Val Tyr Ala
 305 310

<210> 28
 <211> 944
 <212> DNA
 <213> Homo sapiens

<400> 28
 tcttaaattgg ggacttcaaa taatgagact gaattcattc ttttgggcat tacaaaaaat 60
 ccagaactaa ggaaaatatt ctctgctttg tttctagcca tgtatgtgac cacagtgttg 120
 ggaaatctat tcattgtggg gactctgggt gcaagttgga gtctgagatc acctatgtac 180
 ttttccctta ctctcttgct tctcatgggt gccacctact cttccatcac tgcccctaag 240
 atgactgtgg actcttttga gaacactacc atttcccttg aaggctgcat gaccagctc 300
 tttgcagagc atttctctga tgggtgtagc atcatccttc tcaactgtgat ggtctgtgac 360
 tgctatgagg ccatcagtaa gcccctgcat gacacaacca tcatgagtc acgggtgtgg 420
 ctgctgttgg tggtagaagc ttgggtgggg ggattaacac atgccacaat acagcttttt 480
 tttttcatat atcaaatacc ctctgtgggt cccaatatta ttgaccattt tatatgtgat 540
 ttgtttccat tgttaaaact tgcttacatg gacaccaca tgctgggtct cttagtcac 600
 ctcaacagtg ggggtgatgtg tatggccatc ttccttatcc taattgcac ctacattgtc 660
 acctgtact ctctgaagtc ttgcagctcg gtaggtcgac gcaacacact ttccacctgt 720
 ggctcccacc acacagtggg catcttgctt ttcgtggagt gtattttctt gtacataaga 780
 cctgtgggtca cttaccccat agacaaggat atggctatct cctttactat tgttgcaccc 840
 atgttaaate ctctgatcta taccctgagg ggcacaaagg taaaaaatgc cataagaaaa 900
 atgtggatga aacaggggac cctaggtggt cactagctta catg 944

<210> 29

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<400> 29
Met Gly Thr Ser Asn Asn Glu Thr Glu Phe Ile Leu Leu Gly Ile Thr
  1             5             10             15

Lys Asn Pro Glu Leu Arg Lys Ile Phe Ser Ala Leu Phe Leu Ala Met
      20             25             30

Tyr Val Thr Thr Val Leu Gly Asn Leu Phe Ile Val Val Thr Leu Ala
      35             40             45

Ala Ser Trp Ser Leu Arg Ser Pro Met Tyr Phe Ser Leu Thr Ser Leu
      50             55             60

Ser Leu Met Gly Ala Thr Tyr Ser Ser Ile Thr Ala Pro Lys Met Thr
      65             70             75             80

Val Asp Ser Phe Glu Asn Thr Thr Ile Ser Leu Glu Gly Cys Met Thr
      85             90             95

Gln Leu Phe Ala Glu His Phe Ser Asp Gly Val Ala Ile Ile Leu Leu
      100            105            110

Thr Val Met Val Cys Asp Cys Tyr Glu Ala Ile Ser Lys Pro Leu His
      115            120            125

Asp Thr Thr Ile Met Ser Pro Arg Val Trp Leu Leu Leu Val Val Glu
      130            135            140

Ala Trp Val Gly Gly Leu Thr His Ala Thr Ile Gln Leu Phe Phe Phe
      145            150            155            160

Ile Tyr Gln Ile Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Ile
      165            170            175

Cys Asp Leu Phe Pro Leu Leu Lys Leu Ala Tyr Met Asp Thr His Met
      180            185            190

Leu Gly Leu Leu Val Ile Leu Asn Ser Gly Val Met Cys Met Ala Ile
      195            200            205

Phe Leu Ile Leu Ile Ala Ser Tyr Ile Val Thr Leu Tyr Ser Leu Lys
      210            215            220

Ser Cys Ser Ser Val Gly Arg Arg Asn Thr Leu Ser Thr Cys Gly Ser

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225 230 235 240
 His His Thr Val Val Ile Leu Phe Phe Val Glu Cys Ile Phe Leu Tyr
 245 250 255
 Ile Arg Pro Val Val Thr Tyr Pro Ile Asp Lys Asp Met Ala Ile Ser
 260 265 270
 Phe Thr Ile Val Ala Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285
 Gly Ile Lys Val Lys Asn Ala Ile Arg Lys Met Trp Met Lys Gln Gly
 290 295 300
 Thr Leu Gly Gly His
 305

<210> 30
 <211> 1003
 <212> DNA
 <213> Homo sapiens

<400> 30
 gagcatgaat ccaaccatcc cagccttggg tacagaaatt gcaccaatta gtgatacaga 60
 ggagacccat cctcatcggt gtggcatgga ggtcctgggc ctcatagtgc tgatcctcat 120
 cattgacctg gtcgggctgg caggaaatgc agtcatgctc tggctcctgg gcttctgcat 180
 gcacagtaac accttctctc tctacatcct caacctggcc agggctgact tcctctgcac 240
 ctgcttccag attataacat tcattaattt cttcagtgac tttgttagtt ctctctccat 300
 ccatttctct agatttgtca ccacgggtgt gttctccgcc tgtattacag gcctgagcat 360
 gctgagcacc atcagcaccg agcaccgcct gtccgtcctg tggcccatct ggtactgctg 420
 ccactgcccc acacacctgt cagcgggtcat gtgtgtcctg ctctgggccc tgtccctgtt 480
 gcagagcatc ctggagtggg tgttctgtag cttcctgttt agtgatgttg actctgataa 540
 ttggtgtcaa atattagatt tcctcactgc tgtgtggctg atttttttat ctgtggttct 600
 ctgtgggttc accctgggtc tgcttgctcag gatcatatgt ggatcccaga agatgccgct 660
 gaccaggctg tatgtgacca tcctgctcac agggctgggc ttctctctct gcagcctgcc 720
 cctcagcatt cagttattcc tattatactg gatcgagaag gatttggatg acttaccttg 780
 tggtgttcgt ttaatttcca ttttctgtc tgctcttaac agcagtgcc accccatcat 840
 ttacttcttc atgggctcct ttaggcagct tcaaacacagg aagaccctca agctggttct 900
 ccagagggct ctgcaggaca tgcttgaggt ggatgaaggt ggagggcagc ttcctgagga 960
 aaccctgaag ctgtcgggaa gcagattggg gccatgagga aga 1003

<210> 31
 <211> 330
 <212> PRT
 <213> Homo sapiens

<400> 31

Met	Asn	Pro	Thr	Ile	Pro	Ala	Leu	Asp	Thr	Glu	Ile	Ala	Pro	Ile	Ser	1	5	10	15
Asp	Thr	Glu	Glu	Thr	His	Pro	His	Arg	Cys	Gly	Met	Glu	Val	Leu	Val	20	25	30	
Leu	Ile	Val	Leu	Ile	Leu	Ile	Ile	Asp	Leu	Val	Gly	Leu	Ala	Gly	Asn	35	40	45	
Ala	Val	Met	Leu	Trp	Leu	Leu	Gly	Phe	Cys	Met	His	Ser	Asn	Thr	Phe	50	55	60	
Ser	Leu	Tyr	Ile	Leu	Asn	Leu	Ala	Arg	Ala	Asp	Phe	Leu	Cys	Thr	Cys	65	70	75	80
Phe	Gln	Ile	Ile	Thr	Phe	Ile	Asn	Phe	Phe	Ser	Asp	Phe	Val	Ser	Ser	85	90	95	
Leu	Ser	Ile	His	Phe	Ser	Arg	Phe	Val	Thr	Thr	Val	Leu	Phe	Ser	Ala	100	105	110	
Cys	Ile	Thr	Gly	Leu	Ser	Met	Leu	Ser	Thr	Ile	Ser	Thr	Glu	His	Arg	115	120	125	
Leu	Ser	Val	Leu	Trp	Pro	Ile	Trp	Tyr	Cys	Cys	His	Cys	Pro	Thr	His	130	135	140	
Leu	Ser	Ala	Val	Met	Cys	Val	Leu	Leu	Trp	Ala	Leu	Ser	Leu	Leu	Gln	145	150	155	160
Ser	Ile	Leu	Glu	Trp	Met	Phe	Cys	Ser	Phe	Leu	Phe	Ser	Asp	Val	Asp	165	170	175	
Ser	Asp	Asn	Trp	Cys	Gln	Ile	Leu	Asp	Phe	Leu	Thr	Ala	Val	Trp	Leu	180	185	190	
Ile	Phe	Leu	Ser	Val	Val	Leu	Cys	Gly	Phe	Thr	Leu	Val	Leu	Leu	Val	195	200	205	
Arg	Ile	Ile	Cys	Gly	Ser	Gln	Lys	Met	Pro	Leu	Thr	Arg	Leu	Tyr	Val	210	215	220	
Thr	Ile	Leu	Leu	Thr	Gly	Leu	Val	Phe	Leu	Phe	Cys	Ser	Leu	Pro	Leu	225	230	235	240
Ser	Ile	Gln	Leu	Phe	Leu	Leu	Tyr	Trp	Ile	Glu	Lys	Asp	Leu	Asp	Asp	245	250	255	

Leu Pro Cys Val Val Arg Leu Ile Ser Ile Phe Leu Ser Ala Leu Asn
 260 265 270

Ser Ser Ala Asn Pro Ile Ile Tyr Phe Phe Met Gly Ser Phe Arg Gln
 275 280 285

Leu Gln Asn Arg Lys Thr Leu Lys Leu Val Leu Gln Arg Ala Leu Gln
 290 295 300

Asp Met Leu Glu Val Asp Glu Gly Gly Gly Gln Leu Pro Glu Glu Thr
 305 310 315 320

Leu Lys Leu Ser Gly Ser Arg Leu Gly Pro
 325 330

<210> 32
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 Oligonucleotide primer

<400> 32
 gaattgggta aatgacagca tc 22

<210> 33
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 Oligonucleotide primer

<400> 33
 ttagcaaagc ttatcatttg c 21

<210> 34
 <211> 313
 <212> PRT
 <213> Homo sapiens

<400> 34

Met	Asn	Trp	Val	Asn	Asp	Ser	Ile	Ile	Gln	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asp	Arg	Pro	Trp	Leu	Glu	Phe	Pro	Leu	Leu	Val	Val	Phe	Leu
			20					25					30		
Ile	Ser	Tyr	Thr	Val	Thr	Ile	Phe	Gly	Asn	Leu	Thr	Ile	Ile	Leu	Val
		35					40					45			
Ser	Arg	Leu	Asp	Thr	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50					55					60				
Asn	Leu	Ser	Leu	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Cys	Thr	Val	Pro	Gln
65					70					75					80
Met	Leu	Val	Asn	Leu	Cys	Ser	Ile	Arg	Lys	Val	Ile	Ser	Tyr	Arg	Gly
			85						90					95	
Cys	Val	Ala	Gln	Leu	Phe	Ile	Phe	Leu	Ala	Leu	Gly	Ala	Thr	Glu	Tyr
		100						105					110		
Leu	Leu	Leu	Ala	Val	Met	Ser	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg
		115						120				125			
Pro	Leu	His	Tyr	Ser	Val	Ile	Met	His	Gln	Arg	Leu	Cys	Leu	Gln	Leu
	130					135					140				
Ala	Ala	Ala	Ser	Trp	Val	Thr	Gly	Phe	Ser	Asn	Ser	Val	Trp	Leu	Ser
145				150						155				160	
Thr	Leu	Thr	Leu	Gln	Leu	Pro	Leu	Cys	Asp	Pro	Tyr	Val	Ile	Asp	His
			165						170				175		
Phe	Leu	Cys	Glu	Val	Pro	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Val	Glu	Thr
		180						185					190		
Thr	Ala	Asn	Glu	Ala	Glu	Leu	Phe	Leu	Val	Ser	Glu	Leu	Phe	His	Leu
		195				200						205			
Ile	Pro	Leu	Thr	Leu	Ile	Leu	Ile	Ser	Tyr	Ala	Phe	Ile	Val	Arg	Ala
	210					215					220				
Val	Leu	Arg	Ile	Gln	Ser	Ala	Glu	Gly	Arg	Gln	Lys	Ala	Phe	Gly	Thr
225				230						235				240	
Cys	Gly	Ser	His	Leu	Ile	Val	Val	Ser	Leu	Phe	Tyr	Ser	Thr	Ala	Val
			245						250					255	

Ser Val Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Gln Gly Lys
260 265 270

Met Val Ser Leu Phe Tyr Gly Ile Ile Ala Pro Met Leu Asn Pro Leu
275 280 285

Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu Gly Phe Lys Arg Leu
290 295 300

Val Ala Arg Val Phe Leu Ile Lys Lys
305 310

<210> 35
<211> 357
<212> PRT
<213> Homo sapiens

<400> 35
Met Asn Trp Val Asn Lys Ser Val Pro Gln Glu Phe Ile Leu Leu Val
1 5 10 15

Phe Ser Asp Gln Pro Trp Leu Glu Ile Pro Pro Phe Val Met Phe Leu
20 25 30

Phe Ser Tyr Ile Leu Thr Ile Phe Gly Asn Leu Thr Ile Ile Leu Val
35 40 45

Ser His Val Asp Phe Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50 55 60

Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln
65 70 75 80

Met Leu Val Asn Ile Cys Asn Thr Arg Lys Val Ile Ser Tyr Gly Gly
85 90 95

Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Gly Ser Thr Glu Cys
100 105 110

Leu Leu Leu Ala Val Met Cys Phe Asp Arg Phe Val Ala Ile Cys Arg
115 120 125

Pro Leu His Tyr Ser Ile Ile Met His Gln Arg Leu Cys Phe Gln Leu
130 135 140

Ala Ala Ala Ser Trp Ile Ser Gly Phe Ser Asn Ser Val Leu Gln Ser

145		150		155		160
Thr Trp Thr Leu Lys Met Pro Leu Cys Gly His Lys Glu Val Asp His						
	165		170		175	
Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Asp Thr						
	180		185		190	
Thr Ala Asn Glu Ala Glu Leu Phe Phe Ile Ser Val Leu Phe Leu Leu						
	195		200		205	
Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Gln Ala						
	210		215		220	
Val Leu Arg Ile Gln Ser Ala Glu Gly Arg Arg Lys Ala Phe Gly Thr						
225		230		235		240
Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ile						
	245		250		255	
Ser Met Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Arg Gly Lys						
	260		265		270	
Met Val Ser Leu Phe Cys Gly Ile Ile Ala Pro Met Leu Asn Pro Leu						
	275		280		285	
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu Ala Phe Lys Arg Leu						
	290		295		300	
Val Ala Lys Ser Leu Leu Asn Gln Glu Ile Arg Asn Met Gln Met Ile						
305		310		315		320
Ser Phe Ala Lys Asp Thr Val Leu Thr Tyr Leu Thr Asn Phe Ser Ala						
	325		330		335	
Ser Cys Pro Ile Phe Val Ile Thr Ile Glu Asn Tyr Cys Asn Leu Pro						
	340		345		350	
Gln Arg Lys Phe Pro						
	355					

<210> 36
 <211> 310
 <212> PRT
 <213> Homo sapiens

 <400> 36

Met Asn Trp Val Asn Lys Ser Val Pro Gln Glu Phe Ile Leu Leu Val
 1 5 10 15
 Phe Ser Asp Gln Pro Trp Leu Glu Ile Pro Pro Phe Val Met Phe Leu
 20 25 30
 Phe Ser Tyr Ile Leu Thr Ile Phe Gly Asn Leu Thr Ile Ile Leu Val
 35 40 45
 Ser His Val Asp Phe Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln
 65 70 75 80
 Met Leu Val Asn Ile Cys Asn Thr Arg Lys Val Ile Ser Tyr Gly Gly
 85 90 95
 Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Gly Ser Thr Glu Cys
 100 105 110
 Leu Leu Leu Ala Val Met Cys Phe Asp Arg Phe Val Ala Ile Cys Arg
 115 120 125
 Pro Leu His Tyr Ser Ile Ile Met His Gln Arg Leu Cys Phe Gln Leu
 130 135 140
 Ala Ala Ala Ser Trp Ile Ser Gly Phe Ser Asn Ser Val Leu Gln Ser
 145 150 155 160
 Thr Trp Thr Leu Lys Met Pro Leu Cys Gly His Lys Glu Val Asp His
 165 170 175
 Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Asp Thr
 180 185 190
 Thr Ala Asn Glu Ala Glu Leu Phe Phe Ile Ser Val Leu Phe Leu Leu
 195 200 205
 Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Gln Ala
 210 215 220
 Val Leu Arg Ile Gln Ser Ala Glu Gly Gln Arg Lys Ala Phe Gly Thr
 225 230 235 240
 Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ile
 245 250 255

Ser Met Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Arg Gly Lys
260 265 270

Met Val Ser Leu Phe Cys Gly Ile Ile Ala Pro Met Leu Asn Pro Leu
275 280 285

Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu Ala Phe Lys Arg Leu
290 295 300

Val Ala Lys Ser Leu Leu
305 310

<210> 37
<211> 357
<212> PRT
<213> Homo sapiens

<400> 37
Met Asn Trp Val Asn Lys Ser Val Pro Gln Glu Phe Ile Leu Leu Val
1 5 10 15

Phe Ser Asp Gln Pro Trp Leu Glu Ile Pro Pro Phe Val Met Phe Leu
20 25 30

Phe Ser Tyr Ile Leu Thr Ile Phe Gly Asn Leu Thr Ile Ile Leu Val
35 40 45

Ser His Val Asp Phe Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50 55 60

Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln
65 70 75 80

Met Leu Val Asn Ile Cys Asn Thr Arg Lys Val Ile Ser Tyr Gly Gly
85 90 95

Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Gly Ser Thr Glu Cys
100 105 110

Leu Leu Leu Ala Val Met Cys Phe Asp Arg Phe Val Ala Ile Cys Arg
115 120 125

Pro Leu His Tyr Ser Ile Ile Met His Gln Arg Leu Cys Phe Gln Leu
130 135 140

Ala Ala Ala Ser Trp Ile Ser Gly Phe Ser Asn Ser Val Leu Gln Ser
145 150 155 160

Thr Trp Thr Leu Lys Met Pro Leu Cys Gly His Lys Glu Val Asp His
165 170 175

Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Asp Thr
180 185 190

Thr Ala Asn Glu Ala Glu Leu Phe Phe Ile Ser Val Leu Phe Leu Leu
195 200 205

Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Gln Ala
210 215 220

Val Leu Arg Ile Gln Ser Ala Glu Gly Gln Arg Lys Ala Phe Gly Thr
225 230 235 240

Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ile
245 250 255

Ser Met Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Arg Gly Lys
260 265 270

Met Val Ser Leu Phe Cys Gly Ile Ile Ala Pro Met Leu Asn Pro Leu
275 280 285

Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu Ala Phe Lys Arg Leu
290 295 300

Val Ala Lys Ser Leu Leu Asn Gln Glu Ile Arg Asn Met Gln Met Ile
305 310 315 320

Ser Phe Ala Lys Asp Thr Val Leu Thr Tyr Leu Thr Asn Phe Ser Ala
325 330 335

Ser Cys Pro Ile Phe Val Ile Thr Ile Glu Asn Tyr Cys Asn Leu Pro
340 345 350

Gln Arg Lys Phe Pro
355

<210> 38

<211> 280

<212> PRT

<213> Rattus norvegicus

<400> 38

Met Ser Val Ala Asn Glu Ser Ile Ser Arg Glu Phe Ile Leu Leu Gly

1	5	10	15
Phe Ser Asp Arg Pro Trp Leu Glu Leu Pro Leu Phe Val Val Phe Leu	20	25	30
Val Ser Tyr Ile Leu Thr Ile Phe Gly Asn Met Met Ile Ile Leu Val	35	40	45
Ser Arg Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu Thr	50	55	60
Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln	65	70	75
Met Leu Ile Asn Ile Cys Ser Thr Arg Lys Val Ile Ser Tyr Gly Gly	85	90	95
Cys Val Val Gln Leu Phe Ile Phe Leu Ser Leu Gly Ser Thr Glu Cys	100	105	110
Phe Leu Leu Gly Val Met Ser Leu Asp Arg Phe Leu Ala Ile Cys Arg	115	120	125
Pro Leu His Tyr Ser Val Ile Met His Gln Arg Arg Cys Leu His Leu	130	135	140
Ala Ala Ala Cys Trp Ile Ser Gly Phe Ser Asn Ser Val Leu Gln Ser	145	150	155
Thr Trp Thr Leu Gln Met Pro Leu Cys Gly His Lys Glu Val Asp His	165	170	175
Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Asp Thr	180	185	190
Thr Ala Asn Glu Ala Glu Leu Phe Phe Ile Ser Val Leu Phe Leu Leu	195	200	205
Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Gln Ala	210	215	220
Val Leu Lys Ile Arg Ser Ala Glu Cys Arg Arg Lys Ala Phe Gly Thr	225	230	235
Cys Gly Ser His Leu Ile Val Val Val Leu Phe Tyr Gly Thr Ala Ile	245	250	255
Tyr Met Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Arg Gly Lys			

260	265	270
Met Val Ser Leu Phe Tyr Gly Ile		
275	280	
<210> 39		
<211> 377		
<212> PRT		
<213> Bos taurus		
<400> 39		
Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln		
1	5	10 15
Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu		
20	25	30
Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly		
35	40	45
Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp		
50	55	60
Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile		
65	70	75 80
Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr		
85	90	95
Ser Ser Lys Arg Arg Val Thr Val Met Ile Ala Ile Val Trp Val Leu		
100	105	110
Ser Phe Thr Ile Ser Cys Pro Met Leu Phe Gly Leu Asn Asn Thr Asp		
115	120	125
Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr Ser Ser		
130	135	140
Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val Tyr Ile		
145	150	155 160
Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn Thr Lys		
165	170	175
Arg Ser Ser Arg Ala Phe Arg Ala Asn Leu Lys Ala Pro Leu Lys Gly		
180	185	190

Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile Met Lys
 195 200 205

Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala Ala Arg
 210 215 220

Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser Pro Pro
 225 230 235 240

Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln Leu Thr
 245 250 255

Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp Ser Pro
 260 265 270

Ala Lys Pro Glu Lys Asn Gly His Ala Lys Thr Val Asn Pro Lys Ile
 275 280 285

Ala Lys Ile Phe Glu Ile Gln Ser Met Pro Asn Gly Lys Thr Arg Thr
 290 295 300

Ser Leu Lys Thr Met Ser Arg Arg Lys Leu Ser Gln Gln Lys Glu Lys
 305 310 315 320

Lys Ala Thr Gln Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys
 325 330 335

Trp Leu Pro Phe Phe Ile Thr His Ile Leu Asn Ile His Cys Asp Cys
 340 345 350

Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val
 355 360 365

Asn Ser Ala Val Asn Pro Ile Ile Tyr
 370 375

<210> 40
 <211> 377
 <212> PRT
 <213> Homo sapiens

<400> 40
 Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln
 1 5 10 15

Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu
 20 25 30

Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly
35 40 45
Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp
50 55 60
Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile
65 70 75 80
Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr
85 90 95
Ser Ser Lys Arg Arg Val Thr Val Met Ile Ala Ile Val Trp Val Leu
100 105 110
Ser Phe Thr Ile Ser Cys Pro Met Leu Phe Gly Leu Asn Asn Thr Asp
115 120 125
Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr Ser Ser
130 135 140
Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val Tyr Ile
145 150 155 160
Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn Thr Lys
165 170 175
Arg Ser Ser Arg Ala Phe Arg Ala Asn Leu Lys Ala Pro Leu Lys Gly
180 185 190
Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile Met Lys
195 200 205
Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala Ala Arg
210 215 220
Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser Pro Pro
225 230 235 240
Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln Leu Thr
245 250 255
Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp Ser Pro
260 265 270
Ala Lys Pro Glu Lys Asn Gly His Ala Lys Thr Val Asn Pro Lys Ile
275 280 285

Ala Lys Ile Phe Glu Ile Gln Ser Met Pro Asn Gly Lys Thr Arg Thr
 290 295 300

Ser Leu Lys Thr Met Ser Arg Arg Lys Leu Ser Gln Gln Lys Glu Lys
 305 310 315 320

Lys Ala Thr Gln Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys
 325 330 335

Trp Leu Pro Phe Phe Ile Thr His Ile Leu Asn Ile His Cys Asp Cys
 340 345 350

Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val
 355 360 365

Asn Ser Ala Val Asn Pro Ile Ile Tyr
 370 375

<210> 41
 <211> 203
 <212> PRT
 <213> Homo sapiens

<400> 41
 Gly Asn Leu Thr Ile Ile Leu Val Ser Arg Leu Asp Thr Lys Leu His
 1 5 10 15

Thr Pro Met Tyr Phe Phe Leu Thr Asn Leu Ser Leu Leu Asp Leu Cys
 20 25 30

Tyr Thr Thr Cys Thr Val Pro Gln Met Leu Val Asn Leu Cys Ser Ile
 35 40 45

Arg Lys Val Ile Ser Tyr Arg Gly Cys Val Ala Gln Leu Phe Ile Phe
 50 55 60

Leu Ala Leu Gly Ala Thr Glu Tyr Leu Leu Leu Ala Val Met Ser Phe
 65 70 75 80

Asp Arg Phe Val Ala Ile Cys Arg Pro Leu His Tyr Ser Val Ile Met
 85 90 95

His Gln Arg Leu Cys Leu Gln Leu Ala Ala Ala Ser Trp Val Thr Gly
 100 105 110

Phe Ser Asn Ser Val Trp Leu Ser Thr Leu Thr Leu Gln Leu Pro Leu

115	120	125
Cys Asp Pro Tyr Val Ile Asp His Phe Leu Cys Glu Val Pro Ala Leu		
130	135	140
Leu Lys Leu Ser Cys Val Glu Thr Thr Ala Asn Glu Ala Glu Leu Phe		
145	150	155
Leu Val Ser Glu Leu Phe His Leu Ile Pro Leu Thr Leu Ile Leu Ile		
165	170	175
Ser Tyr Ala Phe Ile Val Arg Ala Val Leu Arg Ile Gln Ser Ala Glu		
180	185	190
Gly Arg Gln Lys Ala Phe Gly Thr Cys Gly Ser		
195	200	

<210> 42
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 42
Phe Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Glu
1 5 10 15
Asn Leu Val Val Glu Asp Arg Ile Ile Ser Phe Thr Gly Cys Ile Met
20 25 30
Gln Phe Phe Phe Ala Cys Ile Phe Val Val Thr Glu Thr Phe Met Leu
35 40 45
Ala Ala Met Ala Tyr Asp Arg Phe Val Ala Val Cys Asn Pro Leu Leu
50 55 60
Tyr Thr Val Ala Met Ser Gln Arg Leu Cys Ser Leu Leu Val Ala Ala
65 70 75 80
Ser Tyr Ser Trp Ser Leu Val Cys Ser Leu Thr Tyr Thr Tyr Phe Leu
85 90 95
Leu Thr Leu Ser Phe Cys Arg Thr Asn Phe Ile Asn Asn Phe Val Cys
100 105 110
Glu His Ala Ala Ile Val Ala Val Ser Cys Ser Asp Pro Tyr Met Ser
115 120 125

Gln Lys Val Ile Leu Val Ser Ala Thr Phe Asn Glu Ile Ser Ser Leu
 130 135 140

Val Ile Ile Leu Thr Ser Tyr Ala Phe Ile Phe Ile Thr Val Met Lys
 145 150 155 160

Met Pro Ser Thr Gly Gly Arg Lys Lys Ala Phe Ser Thr Cys Ala Ser
 165 170 175

His Leu Thr Ala Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr
 180 185 190

Cys Val Pro Asn Ser Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser
 195 200 205

Val Phe Tyr Thr Val Val Ile Pro
 210 215

<210> 43
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 43
 Phe Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Glu
 1 5 10 15

Asn Leu Val Val Glu Asp Arg Ile Ile Ser Phe Thr Gly Cys Ile Met
 20 25 30

Gln Phe Phe Phe Ala Cys Ile Phe Val Val Thr Glu Thr Phe Met Leu
 35 40 45

Ala Ala Met Ala Tyr Asp Arg Phe Val Ala Val Cys Asn Pro Leu Leu
 50 55 60

Tyr Thr Val Ala Thr Ser Gln Arg Leu Cys Ser Leu Leu Val Ala Ala
 65 70 75 80

Ser Tyr Ser Trp Ser Leu Val Cys Ser Leu Thr Tyr Thr Tyr Phe Leu
 85 90 95

Leu Thr Leu Ser Phe Cys Arg Thr Asn Phe Ile Asn Asn Phe Val Cys
 100 105 110

Glu His Ala Ala Ile Val Ala Val Ser Cys Ser Asp Pro Tyr Met Ser
 115 120 125

Gln Lys Val Ile Leu Val Ser Ala Thr Phe Asn Glu Ile Ser Ser Leu
 130 135 140

Val Ile Ile Leu Thr Ser Tyr Ala Phe Ile Phe Ile Thr Val Met Lys
 145 150 155 160

Met Pro Ser Thr Gly Gly Arg Lys Lys Ala Phe Ser Thr Cys Ala Ser
 165 170 175

His Leu Thr Ala Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr
 180 185 190

Cys Val Pro Asn Ser Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser
 195 200 205

Val Phe
 210

<210> 44
 <211> 210
 <212> PRT
 <213> Hylobates lar

<400> 44
 Phe Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Glu
 1 5 10 15

Asn Leu Val Val Glu Tyr Arg Thr Ile Ser Phe Thr Gly Cys Ile Met
 20 25 30

Gln Phe Phe Leu Val Cys Ile Phe Val Gly Thr Glu Thr Phe Met Leu
 35 40 45

Ala Val Met Ala Tyr Asp Arg Cys Val Ala Val Cys Asn Pro Leu Leu
 50 55 60

Tyr Thr Val Ala Met Ser Gln Arg Leu Cys Ser Leu Leu Val Ala Thr
 65 70 75 80

Ser Tyr Ser Trp Gly Ile Val Cys Phe Leu Thr Leu Thr Tyr Phe Leu
 85 90 95

Leu Glu Leu Ser Phe Arg Gly Asn Asn Ile Ile Asn Asn Phe Val Cys
 100 105 110

Glu His Ala Ala Ile Val Ala Val Ser Cys Ser Asp Pro Tyr Val Ser

115	120	125
Gln Glu Ile Thr Leu Val Ser Ala Thr Phe Asn Glu Ile Ser Ser Leu		
130	135	140
Met Met Ile Phe Thr Ser Tyr Ala Phe Ile Phe Ile Thr Val Met Lys		
145	150	155 160
Met Pro Ser Thr Gly Gly Arg Lys Lys Ala Phe Ser Thr Cys Ala Ser		
165	170	175
His Leu Thr Ala Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr		
180	185	190
Cys Val Pro Asn Ser Lys Ser Ser Trp Leu Met Val Lys Val Thr Ser		
195	200	205
Val Phe		
210		

<210> 45
 <211> 280
 <212> PRT
 <213> Gallus gallus

<400> 45
 Met Ala Glu Gly Asn His Thr Leu Ala Ser Glu Phe Ile Leu Val Gly
 1 5 10 15
 Leu Ser Asp His Pro Lys Met Lys Ala Ala Leu Phe Val Val Phe Leu
 20 25 30
 Leu Ile Tyr Val Ile Thr Phe Gln Gly Asn Leu Gly Ile Ile Ile Leu
 35 40 45
 Ile Gln Gly Asp Pro Arg Leu His Thr Ser Met Tyr Phe Phe Leu Ser
 50 55 60
 Ser Leu Ser Val Val Asp Ile Cys Phe Ser Ser Val Ile Ala Pro Arg
 65 70 75 80
 Thr Leu Val Asn Phe Leu Ser Glu Arg Arg Thr Ile Ser Phe Thr Gly
 85 90 95
 Cys Thr Gly Gln Thr Phe Phe Tyr Ile Val Phe Val Thr Thr Glu Cys
 100 105 110

Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
115 120 125

Pro Leu Leu Tyr Ser Thr Ile Met Thr Arg Arg Gln Cys Met Gln Leu
130 135 140

Val Val Gly Ser Tyr Ile Gly Gly Ile Leu Asn Ala Ile Ile Gln Thr
145 150 155 160

Thr Phe Ile Ile Arg Leu Pro Phe Cys Gly Ser Asn Ile Ile Asn His
165 170 175

Phe Phe Cys Asp Val Pro Pro Leu Leu Ala Leu Ser Leu Ala Ser Thr
180 185 190

Tyr Ile Ser Glu Met Ile Leu Phe Ser Leu Ala Gly Ile Ile Glu Leu
195 200 205

Ser Thr Val Thr Ser Ile Leu Val Ser Tyr Ile Phe Ile Ser Cys Ala
210 215 220

Ile Leu Arg Ile Arg Ser Ala Glu Gly Arg Gln Lys Ala Leu Ser Thr
225 230 235 240

Cys Ala Ser His Leu Thr Ala Val Thr Leu Leu Tyr Gly Thr Thr Ile
245 250 255

Phe Thr Tyr Leu Arg Pro Ser Ser Ser Tyr Ser Leu Asn Thr Asp Lys
260 265 270

Val Val Ser Val Phe Tyr Thr Val
275 280

<210> 46

<211> 332

<212> PRT

<213> Gallus gallus

<400> 46

Met Leu Val Leu Cys Phe Ser Ala Ser Leu Leu Ser Asn Cys Asn Cys
1 5 10 15

Val Val Met Met Ala Lys Gly Asn His Ser Ser Ile Thr Glu Phe Val
20 25 30

Leu Leu Gly Phe Ser Glu Lys Arg Ala Ile Gln Ala Val Leu Phe Met
35 40 45

Gly Phe Leu Leu Ile Tyr Leu Ile Thr Leu Leu Gly Asn Val Gly Met
 50 55 60

Ile Thr Leu Ile Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe
 65 70 75 80

Phe Leu Ser Ser Leu Ser Phe Leu Asp Ile Cys Tyr Ser Ser Thr Ile
 85 90 95

Thr Pro Arg Val Leu Ser Asp Leu Pro Ala Ser Gln Lys Val Ile Ser
 100 105 110

His Ser Ala Cys Leu Ala Gln Phe Tyr Phe Tyr Ala Val Phe Ala Thr
 115 120 125

Thr Glu Cys Tyr Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala
 130 135 140

Ile Cys Ser Pro Leu Leu Tyr Val Phe Ser Met Ser Ser Arg Val Cys
 145 150 155 160

Val Leu Leu Val Ala Gly Ser Tyr Leu Val Gly Val Val Asn Ala Thr
 165 170 175

Ile His Thr Gly Leu Ala Leu Gln Leu Ser Phe Cys Gly Pro Asn Ile
 180 185 190

Ile Asn His Phe Tyr Cys Asp Gly Pro Pro Leu Tyr Ala Ile Ser Cys
 195 200 205

Thr Asp Pro Thr Thr Asn Glu Ile Ala Ile Phe Leu Val Val Gly Phe
 210 215 220

Asn Met Leu Ile Thr Ser Val Thr Ile Phe Ile Ser Tyr Thr Tyr Ile
 225 230 235 240

Leu Phe Ala Val Leu Arg Met His Thr Ala Ala Gly Lys Arg Lys Thr
 245 250 255

Phe Ser Thr Cys Ala Ser His Leu Ala Thr Val Thr Leu Phe Tyr Ala
 260 265 270

Ser Ala Gly Ser Met Tyr Ser Arg Pro Ser Ser Arg His Ser Gln Asp
 275 280 285

Leu Asp Lys Val Ala Ser Val Phe Tyr Thr Met Val Thr Pro Met Leu
 290 295 300

Asn Pro Leu Ile Tyr Ser Leu Arg Asn Gln Glu Val Lys Asp Val Leu
 305 310 315 320

Gly Lys Val Met Gly Arg Lys Ser Val Ser Asp Lys
 325 330

<210> 47
 <211> 377
 <212> PRT
 <213> Homo sapiens

<400> 47
 Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln
 1 5 10 15

Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu
 20 25 30

Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly
 35 40 45

Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp
 50 55 60

Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile
 65 70 75 80

Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr
 85 90 95

Ser Ser Lys Arg Arg Val Thr Val Met Ile Ala Ile Val Trp Val Leu
 100 105 110

Ser Phe Thr Ile Ser Cys Pro Met Leu Phe Gly Leu Asn Asn Thr Asp
 115 120 125

Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr Ser Ser
 130 135 140

Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val Tyr Ile
 145 150 155 160

Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn Thr Lys
 165 170 175

Arg Ser Ser Arg Ala Phe Arg Ala Asn Leu Lys Ala Pro Leu Lys Gly

180	185	190
Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile Met Lys		
195	200	205
Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala Ala Arg		
210	215	220
Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser Pro Pro		
225	230	235 240
Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln Leu Thr		
245	250	255
Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp Ser Pro		
260	265	270
Ala Lys Pro Glu Lys Asn Gly His Ala Lys Thr Val Asn Pro Lys Ile		
275	280	285
Ala Lys Ile Phe Glu Ile Gln Ser Met Pro Asn Gly Lys Thr Arg Thr		
290	295	300
Ser Leu Lys Thr Met Ser Arg Arg Lys Leu Ser Gln Gln Lys Glu Lys		
305	310	315 320
Lys Ala Thr Gln Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys		
325	330	335
Trp Leu Pro Phe Phe Ile Thr His Ile Leu Asn Ile His Cys Asp Cys		
340	345	350
Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val		
355	360	365
Asn Ser Ala Val Asn Pro Ile Ile Tyr		
370	375	

<210> 48
 <211> 189
 <212> PRT
 <213> Homo sapiens

<400> 48
 Gly Asn Leu Gly Met Ile Ile Ile Ile Arg Leu Asn Ser Lys Leu His
 1 5 10 15

Thr Ile Met Tyr Phe Phe Leu Ser His Leu Ser Leu Thr Asp Phe Cys
 20 25 30

 Phe Ser Thr Val Val Thr Pro Lys Leu Leu Glu Asn Leu Val Val Glu
 35 40 45

 Tyr Arg Thr Ile Ser Phe Ser Gly Cys Ile Met Gln Phe Cys Phe Ala
 50 55 60

 Cys Ile Phe Gly Val Thr Glu Thr Phe Met Leu Ala Ala Met Ala Tyr
 65 70 75 80

 Asp Arg Phe Val Ala Val Cys Lys Pro Leu Leu Tyr Thr Thr Ile Met
 85 90 95

 Ser Gln Lys Leu Cys Ala Leu Leu Val Ala Gly Ser Tyr Thr Trp Gly
 100 105 110

 Ile Val Cys Ser Leu Ile Leu Thr Tyr Phe Leu Leu Asp Leu Ser Phe
 115 120 125

 Cys Glu Ser Thr Phe Ile Asn Asn Phe Ile Cys Asp His Ser Val Ile
 130 135 140

 Val Ser Ala Ser Tyr Ser Asp Pro Tyr Ile Ser Gln Arg Leu Cys Phe
 145 150 155 160

 Ile Ile Ala Ile Phe Asn Glu Val Ser Ser Leu Ile Ile Ile Leu Thr
 165 170 175

 Ser Tyr Met Leu Ile Phe Thr Thr Ile Met Lys Met Arg
 180 185

<210> 49
 <211> 377
 <212> PRT
 <213> Homo sapiens

<400> 49
 Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln
 1 5 10 15

 Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu
 20 25 30

 Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly
 35 40 45

Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp
 50 55 60

Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile
 65 70 75 80

Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr
 85 90 95

Ser Ser Lys Arg Arg Val Thr Val Met Ile Ala Ile Val Trp Val Leu
 100 105 110

Ser Phe Thr Ile Ser Cys Pro Met Leu Phe Gly Leu Asn Asn Thr Asp
 115 120 125

Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr Ser Ser
 130 135 140

Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val Tyr Ile
 145 150 155 160

Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn Thr Lys
 165 170 175

Arg Ser Ser Arg Ala Phe Arg Ala Asn Leu Lys Ala Pro Leu Lys Gly
 180 185 190

Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile Met Lys
 195 200 205

Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala Ala Arg
 210 215 220

Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser Pro Pro
 225 230 235 240

Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln Leu Thr
 245 250 255

Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp Ser Pro
 260 265 270

Ala Lys Pro Glu Lys Asn Gly His Ala Lys Thr Val Asn Pro Lys Ile
 275 280 285

Ala Lys Ile Phe Glu Ile Gln Ser Met Pro Asn Gly Lys Thr Arg Thr
 290 295 300

Ser Leu Lys Thr Met Ser Arg Arg Lys Leu Ser Gln Gln Lys Glu Lys
 305 310 315 320

Lys Ala Thr Gln Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys
 325 330 335

Trp Leu Pro Phe Phe Ile Thr His Ile Leu Asn Ile His Cys Asp Cys
 340 345 350

Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val
 355 360 365

Asn Ser Ala Val Asn Pro Ile Ile Tyr
 370 375

<210> 50
 <211> 196
 <212> PRT
 <213> Homo sapiens

<400> 50
 Gly Asn Leu Gly Met Ile Met Ile Ile Arg Ile Asn Pro Lys Leu His
 1 5 10 15

Thr Arg Met Tyr Phe Phe Leu Ser His Leu Ser Phe Val Asp Phe Cys
 20 25 30

Tyr Ser Thr Thr Val Thr Pro Lys Leu Leu Glu Asn Leu Val Val Glu
 35 40 45

Asp Arg Thr Ile Ser Phe Thr Gly Cys Ile Met Gln Phe Phe Leu Ala
 50 55 60

Cys Ile Cys Ala Val Ala Glu Thr Phe Met Leu Ala Val Met Ala Tyr
 65 70 75 80

Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Leu Tyr Thr Val Val Arg
 85 90 95

Ser Gln Lys Leu Cys Ala Ser Leu Val Ala Gly Pro Tyr Thr Trp Gly
 100 105 110

Ile Ile Ser Ser Leu Thr Leu Thr Tyr Phe Leu Leu Ser Leu Ser Phe
 115 120 125

Cys Gly Ser Asn Ile Ile Asn Asn Phe Val Cys Glu His Ser Val Ile

130 135 140
 Ile Ser Val Ser Cys Ser Asp Pro Tyr Ile Ser Gln Met Leu Cys Phe
 145 150 155 160
 Val Ile Ala Ile Phe Asn Glu Val Ser Ser Leu Gly Val Ile Leu Thr
 165 170 175
 Thr Tyr Ile Phe Ile Phe Ile Ala Val Ile Lys Met Pro Ser Ala Val
 180 185 190
 Gly His Gln Lys
 195

<210> 51
 <211> 308
 <212> PRT
 <213> Mus musculus

<400> 51
 Met Glu Ile Pro His Asn Ile Thr Glu Phe Phe Met Leu Gly Leu Ser
 1 5 10 15
 Gln Arg Pro Glu Ile Gln Arg Leu Leu Phe Val Val Phe Leu Val Ile
 20 25 30
 Tyr Ala Val Thr Val Cys Gly Asn Met Leu Ile Val Val Thr Val Thr
 35 40 45
 Phe Ser Ser Ser Leu Ala Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50 55 60
 Ser Phe Ile Asp Thr Cys Tyr Ser Ser Ser Leu Ala Pro Lys Leu Ile
 65 70 75 80
 Ala Asp Ser Leu Tyr Glu Gly Thr Thr Leu Ser Tyr Glu Gly Cys Met
 85 90 95
 Ala Gln Leu Phe Gly Ala His Phe Leu Gly Gly Val Glu Ile Ile Leu
 100 105 110
 Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Thr Thr Thr Met Thr Arg His Leu Cys Val Val Leu Val Ala
 130 135 140

Val Ala Trp Leu Gly Gly Phe Leu His Ser Leu Val Gln Ile Leu Leu
145 150 155 160

Ile Phe Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Phe Val
165 170 175

Cys Asp Leu Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asn Thr Tyr Val
180 185 190

Ile Gly Leu Leu Val Val Ala Asn Ser Gly Val Ile Cys Leu Leu Asn
195 200 205

Phe Leu Met Leu Ala Ala Ser Tyr Ile Val Ile Leu His Ser Leu Arg
210 215 220

Ser His Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ala
225 230 235 240

His Phe Thr Val Val Thr Met Phe Phe Val Pro Cys Ile Phe Ser Tyr
245 250 255

Met Arg Pro Ser Thr Thr Leu Pro Ile Asp Lys Asn Met Ala Val Phe
260 265 270

Tyr Gly Ile Leu Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
275 280 285

Asn Glu Glu Val Lys Asp Ala Met Arg Lys Leu Phe Thr Arg Ser Glu
290 295 300

Val Val Gly Ala
305

<210> 52

<211> 302

<212> PRT

<213> Mus musculus

<400> 52

Met Asp Ser Pro Arg Asn Val Thr Glu Phe Phe Met Leu Gly Leu Ser
1 5 10 15

Gln Asn Pro Gln Val Gln Arg Met Leu Phe Gly Leu Phe Leu Leu Val
20 25 30

Phe Leu Val Ser Val Gly Gly Asn Met Leu Ile Ile Ile Thr Ile Thr
35 40 45

Phe Ser Pro Thr Leu Gly Ser Pro Met Tyr Phe Phe Leu Ser Tyr Leu
50 55 60
Ser Phe Ile Asp Thr Cys Tyr Ser Ser Cys Met Thr Pro Lys Leu Ile
65 70 75 80
Ala Asp Ser Leu His Glu Gly Arg Ala Ile Ser Phe Glu Gly Cys Leu
85 90 95
Ala Gln Phe Phe Val Ala His Leu Leu Gly Gly Thr Glu Ile Ile Leu
100 105 110
Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
115 120 125
His Tyr Thr Thr Thr Met Thr Arg His Val Cys Ile Val Leu Val Ala
130 135 140
Val Ala Trp Leu Gly Gly Ile Leu His Ser Thr Ala Gln Leu Phe Leu
145 150 155 160
Val Leu Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Phe Val
165 170 175
Cys Asp Leu Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr Tyr Val
180 185 190
Ile Gly Leu Leu Val Val Ala Asn Ser Gly Val Ile Cys Leu Leu Asn
195 200 205
Phe Leu Met Leu Ala Ala Ser Tyr Ile Val Ile Leu Arg Thr Leu Arg
210 215 220
Ser His Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ala
225 230 235 240
His Phe Thr Val Val Ala Leu Phe Phe Val Pro Cys Ile Phe Ile Tyr
245 250 255
Met Arg Pro Ser Ser Thr Leu Ser Ile Asp Lys Ile Val Ala Val Phe
260 265 270
Tyr Cys Ile Leu Thr Pro Met Phe Asn Pro Leu Ile Tyr Thr Leu Arg
275 280 285
Asn Ala Glu Val Lys Asn Ala Met Lys Asn Leu Trp Arg Lys
290 295 300

<210> 53
 <211> 307
 <212> PRT
 <213> Rattus norvegicus

<400> 53
 Met Gly Glu Asn Asn Asn Ile Thr Glu Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15
 Gln Asp Pro Asp Gly Arg Lys Ala Leu Phe Val Ile Phe Phe Leu Ile
 20 25 30
 Tyr Ile Val Thr Met Met Gly Asn Leu Leu Ile Val Val Thr Val Ile
 35 40 45
 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu
 50 55 60
 Ser Leu Leu Asp Ala Leu Phe Ser Thr Ala Ile Ser Pro Lys Leu Ile
 65 70 75 80
 Ala Asp Leu Leu Tyr Asp Gln Lys Thr Ile Ser Phe Arg Ala Cys Met
 85 90 95
 Ser Gln Leu Phe Ile Glu His Leu Phe Gly Gly Val Asp Ile Val Ile
 100 105 110
 Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Leu Ala Ile Met Asn Arg Arg Val Cys Ile Thr Leu Leu Ile
 130 135 140
 Phe Ala Trp Thr Gly Gly Phe Thr His Ser Leu Ile Gln Ile Val Phe
 145 150 155 160
 Val Tyr Asn Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Ile
 165 170 175
 Cys Asp Met Ser Pro Leu Leu Val Leu Ala Cys Thr Asp Thr Tyr Phe
 180 185 190
 Ile Gly Leu Thr Val Ile Ala Asn Gly Gly Val Asn Cys Ile Val Ile
 195 200 205
 Phe Thr Leu Leu Leu Gly Ser Tyr Gly Ile Ile Leu Arg Ser Leu Lys

210		215		220
Thr Gln Ser Gln Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ser Ser				
225		230		240
His Ile Leu Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Met Tyr				
	245		250	255
Ala Arg Pro Val Tyr Asn Phe Pro Ile Asp Lys Cys Ile Thr Val Phe				
	260		265	270
Tyr Thr Ile Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg				
	275		280	285
Asn Ser Glu Ile Lys Ser Cys Met Lys Lys Leu Trp Cys Lys Met Leu				
	290		295	300

His Ala Asp
305

<210> 54
<211> 280
<212> PRT
<213> Mus musculus

<400> 54

Met Gly Ala Leu Asn Gln Thr Arg Val Thr Glu Phe Ile Phe Leu Gly			
1	5	10	15
Leu Thr Asp Asn Trp Val Leu Glu Ile Leu Phe Phe Val Pro Phe Thr			
	20	25	30
Val Thr Tyr Met Leu Thr Leu Leu Gly Asn Phe Leu Ile Val Val Thr			
	35	40	45
Ile Val Phe Thr Pro Arg Leu His Asn Pro Met Tyr Phe Phe Leu Ser			
	50	55	60
Asn Leu Ser Phe Ile Asp Ile Cys His Ser Ser Val Thr Val Pro Lys			
	65	70	75
Met Leu Glu Gly Leu Leu Leu Glu Arg Lys Thr Ile Ser Phe Asp Asn			
	85	90	95
Cys Ile Ala Gln Leu Phe Phe Leu His Leu Phe Ala Cys Ser Glu Ile			
	100	105	110

Phe Leu Leu Thr Ile Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ile
115 120 125

Pro Leu His Tyr Ser Asn Val Met Asn Met Lys Val Cys Val Gln Leu
130 135 140

Val Phe Ala Leu Trp Leu Gly Gly Thr Ile His Ser Leu Val Gln Thr
145 150 155 160

Phe Leu Thr Ile Arg Leu Pro Tyr Cys Gly Pro Asn Ile Ile Asp Ser
165 170 175

Tyr Phe Cys Asp Val Pro Pro Val Ile Lys Leu Ala Cys Thr Asp Thr
180 185 190

Tyr Leu Thr Gly Ile Leu Ile Val Ser Asn Ser Gly Thr Ile Ser Leu
195 200 205

Val Cys Phe Leu Ala Leu Val Thr Ser Tyr Thr Val Ile Leu Phe Ser
210 215 220

Leu Arg Lys Lys Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys
225 230 235 240

Ser Ala His Phe Met Val Val Thr Leu Phe Phe Gly Pro Cys Ile Phe
245 250 255

Leu Tyr Thr Arg Pro Asp Ser Ser Phe Ser Ile Asp Lys Val Val Ser
260 265 270

Val Phe Tyr Thr Val Val Thr Pro
275 280

<210> 55

<211> 210

<212> PRT

<213> Mus musculus

<400> 55

Ser Phe Leu Ser Leu Ile Asp Gly Cys Cys Ser Ser Ser Met Thr Pro
1 5 10 15

Lys Met Leu Ala Asp Ser Leu Ser Val Arg Lys Thr Ile Ser Phe Ser
20 25 30

Gly Cys Met Thr Gln Val Phe Ala Glu His Phe Phe Gly Ala Ala Glu
35 40 45

Ile Ile Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
50 55 60

Lys Pro Leu Arg Tyr Thr Ile Ile Met Asn Arg Phe Val Cys Gly Leu
65 70 75 80

Leu Val Gly Val Ala Trp Ala Gly Gly Phe Ile His Ala Thr Ile Gln
85 90 95

Ile Leu Phe Thr Val Trp Leu Pro Phe Cys Gly Pro Asn Val Ile Asp
100 105 110

His Phe Met Cys Asp Leu Thr Pro Leu Leu Lys Leu Val Cys Met Asp
115 120 125

Thr His Asn Leu Gly Leu Phe Val Ala Ala Asn Ser Gly Phe Ile Cys
130 135 140

Leu Leu Asn Phe Leu Leu Leu Met Ile Ser Tyr Ile Val Ile Leu Asp
145 150 155 160

Ala Leu Lys Ser His Ser Lys Glu Gly Arg Arg Lys Ala Leu Ser Thr
165 170 175

Cys Val Ser His Ile Thr Val Val Ile Leu Phe Phe Val Pro Cys Ile
180 185 190

Phe Val Tyr Leu Arg Pro Val Ile Thr Phe Ser Ile Asp Lys Ala Val
195 200 205

Ala Val
210

<210> 56
<211> 377
<212> PRT
<213> Homo sapiens

<400> 56
Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln
1 5 10 15

Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu
20 25 30

Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly

35	40	45
Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp		
50	55	60
Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile		
65	70	75
Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr		
	85	90
Ser Ser Lys Arg Arg Val Thr Val Met Ile Ala Ile Val Trp Val Leu		
	100	105
Ser Phe Thr Ile Ser Cys Pro Met Leu Phe Gly Leu Asn Asn Thr Asp		
	115	120
Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr Ser Ser		
	130	135
Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val Tyr Ile		
	145	150
Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn Thr Lys		
	165	170
Arg Ser Ser Arg Ala Phe Arg Ala Asn Leu Lys Ala Pro Leu Lys Gly		
	180	185
Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile Met Lys		
	195	200
Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala Ala Arg		
	210	215
Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser Pro Pro		
	225	230
Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln Leu Thr		
	245	250
Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp Ser Pro		
	260	265
Ala Lys Pro Glu Lys Asn Gly His Ala Lys Thr Val Asn Pro Lys Ile		
	275	280
Ala Lys Ile Phe Glu Ile Gln Ser Met Pro Asn Gly Lys Thr Arg Thr		

290		295		300
Ser Leu Lys Thr Met	Ser Arg Arg Lys Leu	Ser Gln Gln Lys Glu Lys		
305	310	315		320
Lys Ala Thr Gln Met Leu Ala Ile Val	Leu Gly Val Phe Ile Ile Cys			
	325	330		335
Trp Leu Pro Phe Phe Ile Thr His Ile	Leu Asn Ile His Cys Asp Cys			
	340	345		350
Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp	Leu Gly Tyr Val			
	355	360		365
Asn Ser Ala Val Asn Pro Ile Ile Tyr				
370		375		

<210> 57
 <211> 193
 <212> PRT
 <213> Homo sapiens

<400> 57
Gly Asn Met Leu Ile Val Val Thr Ile Leu Ser Ser Pro Ala Leu Leu
1 5 10 15
Val Ser Pro Met Tyr Phe Phe Leu Gly Phe Leu Ser Phe Leu Asp Ala
20 25 30
Cys Phe Ser Ser Val Ile Thr Pro Lys Met Ile Val Asp Ser Leu Tyr
35 40 45
Val Thr Lys Thr Ile Ser Phe Glu Gly Cys Met Met Gln Leu Phe Ala
50 55 60
Glu His Phe Phe Ala Gly Val Glu Val Ile Val Leu Thr Ala Met Ala
65 70 75 80
Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Ser Ser Ile
85 90 95
Met Asn Arg Arg Leu Cys Gly Ile Leu Met Gly Val Ala Trp Thr Gly
100 105 110
Gly Leu Leu His Ser Met Ile Gln Ile Leu Phe Thr Phe Gln Leu Pro
115 120 125

Phe Cys Gly Pro Asn Val Ile Asn His Phe Met Cys Asp Leu Tyr Pro
 130 135 140

Leu Leu Glu Leu Ala Cys Thr Asp Thr His Ile Phe Gly Leu Met Val
 145 150 155 160

Val Ile Asn Ser Gly Phe Ile Cys Ile Ile Asn Phe Ser Leu Leu Leu
 165 170 175

Val Ser Tyr Ala Val Ile Leu Leu Ser Leu Arg Thr His Ser Ser Glu
 180 185 190

Gly

<210> 58
 <211> 264
 <212> PRT
 <213> Rattus norvegicus

<220>
 <221> VARIANT
 <222> (181)
 <223> Wherein Xaa is any amino acid as defined in the
 specification

<400> 58
 Val Cys Phe Val Leu Phe Leu Pro Val Tyr Leu Ala Thr Val Leu Gly
 1 5 10 15

Asn Gly Leu Ile Val Val Thr Val Asn Ile Ser Lys Ser Leu Tyr Ser
 20 25 30

Pro Met Tyr Phe Phe Leu Ser Tyr Leu Ser Leu Val Glu Ile Leu Tyr
 35 40 45

Ser Ser Thr Val Val Pro Lys Phe Ile Thr Asp Leu Leu His Lys Ile
 50 55 60

Lys Thr Ile Ser Leu Lys Gly Cys Leu Ala Gln Ile Phe Phe Phe His
 65 70 75 80

Phe Phe Gly Val Thr Glu Ile Leu Trp Leu Thr Val Met Ala Tyr Asp
 85 90 95

Arg Tyr Val Ala Ile Cys Lys Pro Leu Tyr Tyr Thr Thr Ile Met Ser
 100 105 110

Arg Pro Ile Cys His Arg Leu Val Ala Gly Ser Trp Val Gly Gly Phe
115 120 125

Phe His Ser Ile Ile Gln Ile Phe Ile Thr Ile Pro Leu Pro Phe Cys
130 135 140

Gly Pro Asn Ile Ile Asp His Tyr Phe Cys Asp Leu His Pro Leu Phe
145 150 155 160

Lys Leu Ala Cys Thr Asp Thr Phe Val Val Gly Val Ile Met Phe Val
165 170 175

Asn Ser Gly Leu Xaa Ser Val Phe Pro Phe Leu Xaa Leu Val Ser Ser
180 185 190

Tyr Ile Val Ile Leu Tyr Asn Leu Arg Asn His Ser Ala Glu Gly Arg
195 200 205

Arg Lys Ala Leu Ser Thr Cys Ala Ser His Ile Met Val Val Val Leu
210 215 220

Phe Phe Gly Pro Ala Ile Phe Leu Tyr Leu Arg Pro Ala Ser Thr Tyr
225 230 235 240

Thr Glu Asp Lys Leu Val Ala Val Phe Tyr Thr Val Ile Thr Pro Met
245 250 255

Met Asn Pro Ile Ile Tyr Thr Leu
260

<210> 59
<211> 377
<212> PRT
<213> Homo sapiens

<400> 59
Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln
1 5 10 15

Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu
20 25 30

Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly
35 40 45

Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp

50	55	60
Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile		
65	70	75 80
Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr		
	85 90	95
Ser Ser Lys Arg Arg Val Thr Val Met Ile Ala Ile Val Trp Val Leu		
	100 105	110
Ser Phe Thr Ile Ser Cys Pro Met Leu Phe Gly Leu Asn Asn Thr Asp		
	115 120	125
Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr Ser Ser		
	130 135	140
Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val Tyr Ile		
	145 150	155 160
Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn Thr Lys		
	165 170	175
Arg Ser Ser Arg Ala Phe Arg Ala Asn Leu Lys Ala Pro Leu Lys Gly		
	180 185	190
Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile Met Lys		
	195 200	205
Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala Ala Arg		
	210 215	220
Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser Pro Pro		
	225 230	235 240
Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln Leu Thr		
	245 250	255
Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp Ser Pro		
	260 265	270
Ala Lys Pro Glu Lys Asn Gly His Ala Lys Thr Val Asn Pro Lys Ile		
	275 280	285
Ala Lys Ile Phe Glu Ile Gln Ser Met Pro Asn Gly Lys Thr Arg Thr		
	290 295	300
Ser Leu Lys Thr Met Ser Arg Arg Lys Leu Ser Gln Gln Lys Glu Lys		

305 310 315 320
 Lys Ala Thr Gln Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys
 325 330 335
 Trp Leu Pro Phe Phe Ile Thr His Ile Leu Asn Ile His Cys Asp Cys
 340 345 350
 Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val
 355 360 365
 Asn Ser Ala Val Asn Pro Ile Ile Tyr
 370 375

<210> 60
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 60
 Val Lys Ala Ser Gln Ala Leu Lys Asn Pro Met Phe Phe Phe Leu Phe
 1 5 10 15
 Tyr Leu Ser Leu Ser Asp Thr Cys Leu Ser Thr Ser Ile Ala Pro Arg
 20 25 30
 Met Ile Val Asp Ala Leu Leu Lys Lys Thr Thr Ile Ser Phe Ser Glu
 35 40 45
 Cys Met Ile Gln Val Phe Ser Ser His Val Phe Gly Cys Leu Glu Ile
 50 55 60
 Phe Ile Leu Ile Leu Thr Ala Val Asp Arg Tyr Val Asp Ile Cys Lys
 65 70 75 80
 Pro Leu His Tyr Met Thr Ile Ile Ser Gln Trp Val Cys Gly Val Leu
 85 90 95
 Met Ala Val Ala Trp Val Gly Ser Cys Val His Ser Leu Val Gln Ile
 100 105 110
 Phe Leu Ala Leu Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His
 115 120 125
 Cys Phe Cys Asp Leu Gln Pro Leu Leu Lys Gln Ala Cys Ser Glu Thr
 130 135 140

Tyr Val Val Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ala
 145 150 155 160

Val Ser Tyr Val Met Leu Ile Phe Ser Tyr Val Ile Phe Leu His Ser
 165 170 175

Leu Arg Asn His Ser Ala Glu Val Ile Lys Lys Ala
 180 185

<210> 61
 <211> 264
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (103)
 <223> Wherein Xaa is any amino acid as defined in the
 specification

<400> 61
 Val Cys Phe Val Leu Phe Leu Pro Val Tyr Leu Ala Thr Val Leu Gly
 1 5 10 15

Asn Gly Leu Ile Val Val Thr Val Asn Ile Ser Lys Ser Leu Tyr Ser
 20 25 30

Pro Met Tyr Phe Phe Leu Asn Tyr Leu Ser Leu Val Glu Ile Leu Tyr
 35 40 45

Ser Ser Thr Val Val Pro Lys Phe Ile Thr Asp Leu Leu Asn Lys Ile
 50 55 60

Lys Thr Ile Ser Pro Lys Gly Cys Leu Ala Gln Ile Phe Phe Phe His
 65 70 75 80

Phe Phe Gly Val Thr Glu Ile Leu Leu Leu Thr Val Met Ala Tyr Asp
 85 90 95

Arg Tyr Val Ala Ile Cys Xaa Pro Leu Tyr Tyr Thr Thr Ile Met Ser
 100 105 110

Arg Pro Lys Cys His Arg Leu Val Ala Gly Ser Trp Val Gly Gly Phe
 115 120 125

Phe His Ser Ile Ile Gln Ile Phe Ile Thr Leu Pro Leu Pro Phe Cys
 130 135 140

Gly Pro Asn Val Ile Asp His Tyr Phe Cys Asp Leu His Pro Leu Phe
145 150 155 160

Lys Leu Ala Cys Thr Asp Thr Phe Val Val Gly Val Ile Met Phe Val
165 170 175

Asn Ser Gly Leu Phe Ser Val Phe Ser Phe Leu Phe Leu Val Ser Ser
180 185 190

Tyr Ile Val Ile Leu Tyr Asn Leu Arg Asn His Ser Ala Glu Gly Arg
195 200 205

Arg Lys Ala Leu Ser Thr Cys Ala Ser His Ile Met Val Val Val Leu
210 215 220

Phe Phe Gly Pro Ala Ile Phe Leu Tyr Leu Arg Pro Ala Ser Thr Tyr
225 230 235 240

Thr Glu Asp Lys Leu Val Ala Val Phe Tyr Thr Val Ile Thr Pro Met
245 250 255

Leu Asn Pro Ile Ile Tyr Thr Leu
260

<210> 62
<211> 377
<212> PRT
<213> Homo sapiens

<400> 62
Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln
1 5 10 15

Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu
20 25 30

Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly
35 40 45

Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp
50 55 60

Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile
65 70 75 80

Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr

340 345 350
 Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val
 355 360 365

Asn Ser Ala Val Asn Pro Ile Ile Tyr
 370 375

<210> 63
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 63
 Gly Asn Leu Leu Ile Met Ile Ser Ile Thr Cys Thr Gln Leu Ile His
 1 5 10 15

Gln Pro Met Tyr Phe Phe Leu Asn Tyr Leu Ser Leu Ser Asp Leu Cys
 20 25 30

Tyr Thr Ser Thr Val Thr Pro Lys Leu Met Val Asp Leu Leu Ala Glu
 35 40 45

Arg Lys Thr Ile Ser Tyr Asn Asn Cys Met Ile Gln Leu Phe Thr Thr
 50 55 60

His Phe Phe Gly Gly Ile Glu Ile Phe Ile Leu Thr Gly Met Ala Tyr
 65 70 75 80

Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Thr Ile Ile Met
 85 90 95

Ser Arg Gln Lys Cys Asn Thr Ile Ile Ile Val Cys Cys Thr Gly Gly
 100 105 110

Phe Ile His Ser Ala Ser Gln Phe Leu Leu Thr Ile Phe Val Pro Phe
 115 120 125

Cys Gly Pro Asn Glu Ile Asp His Tyr Phe Cys Asp Val Tyr Pro Leu
 130 135 140

Leu Lys Leu Ala Cys Ser Asn Ile His Met Ile Gly Leu Leu Val Ile
 145 150 155 160

Ala

<210> 64
 <211> 377
 <212> PRT
 <213> Homo sapiens

<400> 64
 Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln
 1 5 10 15
 Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu
 20 25 30
 Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly
 35 40 45
 Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp
 50 55 60
 Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile
 65 70 75 80
 Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr
 85 90 95
 Ser Ser Lys Arg Arg Val Thr Val Met Ile Ala Ile Val Trp Val Leu
 100 105 110
 Ser Phe Thr Ile Ser Cys Pro Met Leu Phe Gly Leu Asn Asn Thr Asp
 115 120 125
 Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr Ser Ser
 130 135 140
 Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val Tyr Ile
 145 150 155 160
 Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn Thr Lys
 165 170 175
 Arg Ser Ser Arg Ala Phe Arg Ala Asn Leu Lys Ala Pro Leu Lys Gly
 180 185 190
 Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile Met Lys
 195 200 205
 Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala Ala Arg
 210 215 220

Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser Pro Pro
225 230 235 240

Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln Leu Thr
245 250 255

Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp Ser Pro
260 265 270

Ala Lys Pro Glu Lys Asn Gly His Ala Lys Thr Val Asn Pro Lys Ile
275 280 285

Ala Lys Ile Phe Glu Ile Gln Ser Met Pro Asn Gly Lys Thr Arg Thr
290 295 300

Ser Leu Lys Thr Met Ser Arg Arg Lys Leu Ser Gln Gln Lys Glu Lys
305 310 315 320

Lys Ala Thr Gln Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys
325 330 335

Trp Leu Pro Phe Phe Ile Thr His Ile Leu Asn Ile His Cys Asp Cys
340 345 350

Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val
355 360 365

Asn Ser Ala Val Asn Pro Ile Ile Tyr
370 375

<210> 65
<211> 152
<212> PRT
<213> Homo sapiens

<400> 65
Thr Val Cys Leu Ser Asn Leu Phe Lys Ser Pro Met Tyr Phe Phe Leu
1 5 10 15

Ser Phe Leu Ser Phe Val Asp Ile Cys Tyr Ser Ser Val Thr Ala Pro
20 25 30

Lys Met Ile Val Asp Leu Leu Ala Lys Asp Lys Thr Ile Ser Tyr Val
35 40 45

Gly Cys Met Leu Gln Leu Leu Gly Val His Phe Phe Gly Cys Thr Glu

50					55					60					
Ile	Phe	Ile	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
65					70					75					80
Lys	Pro	Leu	His	Tyr	Met	Thr	Ile	Met	Asn	Arg	Glu	Thr	Cys	Asn	Lys
85					90					95					
Met	Leu	Leu	Gly	Thr	Trp	Val	Gly	Gly	Phe	Leu	His	Ser	Ile	Ile	Gln
100					105					110					
Val	Ala	Leu	Val	Val	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp
115					120					125					
His	Tyr	Phe	Cys	Asp	Val	His	Pro	Val	Leu	Lys	Leu	Ala	Cys	Thr	Glu
130					135					140					
Thr	Tyr	Ile	Val	Gly	Val	Val	Val								
145					150										

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<210> 66
<211> 377
<212> PRT
<213> Homo sapiens
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<400> 66
Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln
  1             5             10             15

Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu
      20             25             30

Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly
      35             40             45

Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp
  50             55             60

Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile
  65             70             75             80

Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr
      85             90             95

Ser Ser Lys Arg Arg Val Thr Val Met Ile Ala Ile Val Trp Val Leu
      100            105            110

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Ser Phe Thr Ile Ser Cys Pro Met Leu Phe Gly Leu Asn Asn Thr Asp
 115 120 125

Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr Ser Ser
 130 135 140

Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val Tyr Ile
 145 150 155 160

Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn Thr Lys
 165 170 175

Arg Ser Ser Arg Ala Phe Arg Ala Asn Leu Lys Ala Pro Leu Lys Gly
 180 185 190

Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile Met Lys
 195 200 205

Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala Ala Arg
 210 215 220

Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser Pro Pro
 225 230 235 240

Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln Leu Thr
 245 250 255

Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp Ser Pro
 260 265 270

Ala Lys Pro Glu Lys Asn Gly His Ala Lys Thr Val Asn Pro Lys Ile
 275 280 285

Ala Lys Ile Phe Glu Ile Gln Ser Met Pro Asn Gly Lys Thr Arg Thr
 290 295 300

Ser Leu Lys Thr Met Ser Arg Arg Lys Leu Ser Gln Gln Lys Glu Lys
 305 310 315 320

Lys Ala Thr Gln Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys
 325 330 335

Trp Leu Pro Phe Phe Ile Thr His Ile Leu Asn Ile His Cys Asp Cys
 340 345 350

Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val
 355 360 365

Asn Ser Ala Val Asn Pro Ile Ile Tyr
 370 375

<210> 67
 <211> 195
 <212> PRT
 <213> Homo sapiens

<400> 67
 Asn Leu Phe Ile Val Ile Thr Ile Ser Cys Ser Pro Thr Leu Ser Ser
 1 5 10 15

Pro Met Tyr Phe Phe Leu Thr Tyr Leu Ser Phe Ile Asp Ala Ser Tyr
 20 25 30

Thr Ser Val Thr Thr Pro Lys Met Ile Thr Asp Leu Leu Tyr Gln Arg
 35 40 45

Arg Thr Ile Ser Leu Ala Gly Cys Leu Thr Gln Leu Phe Val Glu His
 50 55 60

Leu Leu Gly Gly Ser Glu Ile Ile Leu Leu Ile Val Met Ala Tyr Asp
 65 70 75 80

Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Thr Thr Ile Met Gln
 85 90 95

Gln Gly Ile Cys His Leu Leu Val Val Ile Ala Trp Ile Gly Gly Ile
 100 105 110

Leu His Ala Thr Val Gln Ile Leu Phe Met Thr Asp Leu Pro Phe Cys
 115 120 125

Gly Pro Asn Val Ile Asp His Phe Met Cys Asp Leu Phe Pro Leu Leu
 130 135 140

Lys Leu Ala Cys Arg Asp Thr Tyr Arg Leu Gly Met Leu Val Ala Ala
 145 150 155 160

Asn Ser Gly Ala Met Cys Leu Leu Ile Phe Ser Leu Leu Val Ile Ser
 165 170 175

Tyr Ile Val Ile Leu Ser Ser Leu Lys Ser Tyr Ser Ser Glu Gly Gln
 180 185 190

Arg Lys Ala
 195

<210> 68
 <211> 264
 <212> PRT
 <213> Rattus norvegicus

<220>
 <221> VARIANT
 <222> (181)
 <223> Wherein Xaa is any amino acid as defined in the
 specification

<400> 68
 Val Cys Phe Val Leu Phe Leu Pro Val Tyr Leu Ala Thr Val Leu Gly
 1 5 10 15
 Asn Gly Leu Ile Val Val Thr Val Asn Ile Ser Lys Ser Leu Tyr Ser
 20 25 30
 Pro Met Tyr Phe Phe Leu Ser Tyr Leu Ser Leu Val Glu Ile Leu Tyr
 35 40 45
 Ser Ser Thr Val Val Pro Lys Phe Ile Thr Asp Leu Leu His Lys Ile
 50 55 60
 Lys Thr Ile Ser Leu Lys Gly Cys Leu Ala Gln Ile Phe Phe Phe His
 65 70 75 80
 Phe Phe Gly Val Thr Glu Ile Leu Trp Leu Thr Val Met Ala Tyr Asp
 85 90 95
 Arg Tyr Val Ala Ile Cys Lys Pro Leu Tyr Tyr Thr Thr Ile Met Ser
 100 105 110
 Arg Pro Ile Cys His Arg Leu Val Ala Gly Ser Trp Val Gly Gly Phe
 115 120 125
 Phe His Ser Ile Ile Gln Ile Phe Ile Thr Ile Pro Leu Pro Phe Cys
 130 135 140
 Gly Pro Asn Ile Ile Asp His Tyr Phe Cys Asp Leu His Pro Leu Phe
 145 150 155 160
 Lys Leu Ala Cys Thr Asp Thr Phe Val Val Gly Val Ile Met Phe Val
 165 170 175
 Asn Ser Gly Leu Xaa Ser Val Phe Pro Phe Leu Xaa Leu Val Ser Ser

180 185 190
 Tyr Ile Val Ile Leu Tyr Asn Leu Arg Asn His Ser Ala Glu Gly Arg
 195 200 205
 Arg Lys Ala Leu Ser Thr Cys Ala Ser His Ile Met Val Val Val Leu
 210 215 220
 Phe Phe Gly Pro Ala Ile Phe Leu Tyr Leu Arg Pro Ala Ser Thr Tyr
 225 230 235 240
 Thr Glu Asp Lys Leu Val Ala Val Phe Tyr Thr Val Ile Thr Pro Met
 245 250 255
 Met Asn Pro Ile Ile Tyr Thr Leu
 260

<210> 69
 <211> 377
 <212> PRT
 <213> Homo sapiens

<400> 69
 Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln
 1 5 10 15
 Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu
 20 25 30
 Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly
 35 40 45
 Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp
 50 55 60
 Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile
 65 70 75 80
 Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr
 85 90 95
 Ser Ser Lys Arg Arg Val Thr Val Met Ile Ala Ile Val Trp Val Leu
 100 105 110
 Ser Phe Thr Ile Ser Cys Pro Met Leu Phe Gly Leu Asn Asn Thr Asp
 115 120 125

Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr Ser Ser
 130 135 140

Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val Tyr Ile
 145 150 155 160

Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn Thr Lys
 165 170 175

Arg Ser Ser Arg Ala Phe Arg Ala Asn Leu Lys Ala Pro Leu Lys Gly
 180 185 190

Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile Met Lys
 195 200 205

Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala Ala Arg
 210 215 220

Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser Pro Pro
 225 230 235 240

Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln Leu Thr
 245 250 255

Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp Ser Pro
 260 265 270

Ala Lys Pro Glu Lys Asn Gly His Ala Lys Thr Val Asn Pro Lys Ile
 275 280 285

Ala Lys Ile Phe Glu Ile Gln Ser Met Pro Asn Gly Lys Thr Arg Thr
 290 295 300

Ser Leu Lys Thr Met Ser Arg Arg Lys Leu Ser Gln Gln Lys Glu Lys
 305 310 315 320

Lys Ala Thr Gln Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys
 325 330 335

Trp Leu Pro Phe Phe Ile Thr His Ile Leu Asn Ile His Cys Asp Cys
 340 345 350

Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val
 355 360 365

Asn Ser Ala Val Asn Pro Ile Ile Tyr
 370 375

<210> 70
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 70
 Gly Asn Leu Phe Ile Val Val Thr Leu Ala Ala Ser Trp Ser Leu Arg
 1 5 10 15
 Ser Pro Met Tyr Phe Ser Leu Thr Ser Leu Ser Leu Met Gly Ala Thr
 20 25 30
 Tyr Ser Ser Ile Thr Ala Pro Lys Met Thr Val Asp Ser Phe Glu Asn
 35 40 45
 Thr Thr Ile Ser Leu Glu Gly Cys Met Thr Gln Leu Phe Ala Glu His
 50 55 60
 Phe Ser Asp Gly Val Ala Ile Ile Leu Leu Thr Val Met Val Cys Asp
 65 70 75 80
 Cys Tyr Glu Ala Ile Ser Lys Pro Leu His Asp Thr Thr Ile Met Ser
 85 90 95
 Pro Arg Val Trp Leu Leu Leu Val Val Glu Ala Trp Val Gly Gly Leu
 100 105 110
 Thr His Ala Thr Ile Gln Leu Phe Phe Phe Ile Tyr Gln Ile Pro Phe
 115 120 125
 Cys Gly Pro Asn Ile Ile Asp His Phe Ile Cys Asp Leu Phe Pro Leu
 130 135 140
 Leu Lys Leu Ala Tyr Met Asp Thr His Met Leu Gly Leu Leu Val Ile
 145 150 155 160
 Leu

<210> 71
 <211> 280
 <212> PRT
 <213> Mus musculus

<400> 71
 Met Asp Gln Ser Asn Met Thr Ser Leu Ala Glu Glu Lys Ala Met Asn

1 5 10 15
 Thr Ser Ser Arg Asn Ala Ser Leu Gly Ser Ser His Pro Pro Ile Pro
 20 25 30
 Ile Val His Trp Val Ile Met Ser Ile Ser Pro Leu Gly Phe Val Glu
 35 40 45
 Asn Gly Ile Leu Leu Trp Phe Leu Cys Phe Arg Met Arg Arg Asn Pro
 50 55 60
 Phe Thr Val Tyr Ile Thr His Leu Ser Ile Ala Asp Ile Tyr Leu Leu
 65 70 75 80
 Phe Cys Ile Phe Ile Leu Ser Ile Asp Tyr Ala Leu Asp Tyr Glu Leu
 85 90 95
 Ser Ser Gly His His Tyr Thr Ile Val Thr Leu Ser Val Thr Phe Leu
 100 105 110
 Phe Gly Tyr Asn Thr Gly Leu Tyr Leu Leu Thr Ala Ile Ser Val Glu
 115 120 125
 Arg Cys Leu Ser Val Leu Tyr Pro Ile Trp Tyr Arg Cys His Arg Pro
 130 135 140
 Lys His Gln Ser Ala Phe Val Cys Ala Leu Leu Trp Ala Leu Ser Cys
 145 150 155 160
 Leu Val Thr Thr Met Glu Tyr Val Met Cys Ile Asp Ser Gly Glu Glu
 165 170 175
 Ser His Ser Arg Ser Asp Cys Arg Ala Val Ile Ile Phe Ile Ala Ile
 180 185 190
 Leu Ser Phe Leu Val Phe Thr Pro Leu Met Leu Val Ser Ser Thr Ile
 195 200 205
 Leu Val Val Lys Ile Arg Lys Asn Thr Trp Ala Ser His Ser Ser Lys
 210 215 220
 Leu Tyr Ile Val Ile Met Val Thr Ile Ile Ile Phe Leu Ile Phe Ala
 225 230 235 240
 Met Pro Met Arg Val Leu Tyr Leu Leu Tyr Tyr Glu Tyr Trp Ser Ala
 245 250 255
 Phe Gly Asn Leu His Asn Ile Ser Leu Leu Phe Ser Thr Ile Asn Ser

Leu Ser Phe Leu Val Phe Thr Pro Leu Met Leu Val Ser Ser Thr Ile
 195 200 205
 Leu Val Val Lys Ile Arg Lys Asn Thr Trp Ala Ser His Ser Ser Lys
 210 215 220
 Leu Tyr Ile Val Ile Met Val Thr Ile Ile Ile Phe Leu Ile Phe Ala
 225 230 235 240
 Met Pro Met Arg Val Leu Tyr Leu Leu Tyr Tyr Glu Tyr Trp Ser Thr
 245 250 255
 Phe Gly Asn Leu His Asn Ile Ser Leu Leu Phe Ser Thr Ile Asn Ser
 260 265 270
 Ser Ala Asn Pro Phe Ile Tyr Phe Phe Val Gly Ser Ser Lys Lys Lys
 275 280 285
 Arg Phe Arg Glu Ser Leu Lys Val Val Leu Thr Arg Ala Phe Lys Asp
 290 295 300
 Glu Met Gln Pro Arg Arg Gln Glu Gly Asn Gly Asn Thr Val Ser Ile
 305 310 315 320
 Glu Thr Val Val

<210> 73
 <211> 324
 <212> PRT
 <213> Mus musculus

<400> 73
 Met Asp Gln Ser Asn Met Thr Ser Leu Ala Glu Glu Lys Ala Met Asn
 1 5 10 15
 Thr Ser Ser Arg Asn Ala Ser Leu Gly Ser Ser His Pro Pro Ile Pro
 20 25 30
 Ile Val His Trp Val Ile Met Ser Ile Ser Pro Leu Gly Phe Val Glu
 35 40 45
 Asn Gly Ile Leu Leu Trp Phe Leu Cys Phe Arg Met Arg Arg Asn Pro
 50 55 60
 Phe Thr Val Tyr Ile Thr His Leu Ser Met Ala Asp Ile Ser Leu Leu
 65 70 75 80

Phe Cys Ile Phe Ile Leu Ser Ile Asp Tyr Ala Leu Asp Tyr Glu Leu
85 90 95
Ser Ser Gly His His Tyr Thr Ile Val Thr Leu Ser Val Thr Phe Leu
100 105 110
Phe Gly Tyr Asn Thr Gly Leu Tyr Leu Leu Thr Ala Ile Ser Val Glu
115 120 125
Arg Cys Leu Ser Val Leu Tyr Pro Ile Trp Tyr Thr Ser His Arg Pro
130 135 140
Lys His Gln Ser Ala Phe Val Cys Ala Leu Leu Cys Ala Leu Ser Cys
145 150 155 160
Leu Val Thr Thr Met Glu Tyr Val Met Cys Ile Asp Ser Gly Glu Glu
165 170 175
Ser His Ser Arg Ser Asp Cys Arg Ala Val Ile Ile Phe Ile Ala Ile
180 185 190
Leu Ser Phe Leu Val Phe Thr Pro Leu Met Leu Val Ser Ser Ser Ile
195 200 205
Leu Val Val Lys Ile Arg Lys Asn Thr Trp Ala Ser His Ser Ser Lys
210 215 220
Leu Tyr Ile Val Ile Met Val Thr Ile Ile Ile Phe Leu Ile Phe Ala
225 230 235 240
Met Pro Met Arg Val Leu Tyr Leu Leu Tyr Tyr Glu Tyr Trp Ser Ala
245 250 255
Phe Gly Asn Leu His Asn Ile Ser Leu Leu Phe Ser Thr Ile Asn Ser
260 265 270
Ser Ala Asn Pro Phe Ile Tyr Phe Phe Val Gly Ser Ser Lys Lys Lys
275 280 285
Arg Phe Arg Glu Ser Leu Lys Val Val Leu Thr Arg Ala Phe Lys Asp
290 295 300
Glu Met Gln Pro Arg Arg Gln Glu Gly Asn Gly Asn Thr Val Ser Ile
305 310 315 320
Glu Thr Val Val

<210> 74
 <211> 378
 <212> PRT
 <213> Homo sapiens

<400> 74
 Met Val Trp Gly Lys Ile Cys Trp Phe Ser Gln Arg Ala Gly Trp Thr
 1 5 10 15
 Val Phe Ala Glu Ser Gln Ile Ser Leu Ser Cys Ser Leu Cys Leu His
 20 25 30
 Ser Gly Asp Gln Glu Ala Gln Asn Pro Asn Leu Val Ser Gln Leu Cys
 35 40 45
 Gly Val Phe Leu Gln Asn Glu Thr Asn Glu Thr Ile His Met Gln Met
 50 55 60
 Ser Met Ala Val Gly Gln Gln Ala Leu Pro Leu Asn Ile Ile Ala Pro
 65 70 75 80
 Lys Ala Val Leu Val Ser Leu Cys Gly Val Leu Leu Asn Gly Thr Val
 85 90 95
 Phe Trp Leu Leu Cys Cys Gly Ala Thr Asn Pro Tyr Met Val Tyr Ile
 100 105 110
 Leu His Leu Val Ala Ala Asp Val Ile Tyr Leu Cys Cys Ser Ala Val
 115 120 125
 Gly Phe Leu Gln Val Thr Leu Leu Thr Tyr His Gly Val Val Phe Phe
 130 135 140
 Ile Pro Asp Phe Leu Ala Ile Leu Ser Pro Phe Ser Phe Glu Val Cys
 145 150 155 160
 Leu Cys Leu Leu Val Ala Ile Ser Thr Glu Arg Cys Val Cys Val Leu
 165 170 175
 Phe Pro Ile Trp Tyr Arg Cys His Arg Pro Lys Tyr Thr Ser Asn Val
 180 185 190
 Val Cys Thr Leu Ile Trp Gly Leu Pro Phe Cys Ile Asn Ile Val Lys
 195 200 205
 Ser Leu Phe Leu Thr Tyr Trp Lys His Val Lys Ala Cys Val Ile Phe

210	215	220	
Leu Lys Leu Ser Gly	Leu Phe His Ala Ile	Leu Ser Leu Val Met Cys	
225	230	235	240
Val Ser Ser Leu Thr	Leu Leu Ile Arg Phe	Leu Cys Cys Ser Gln Gln	
	245	250	255
Gln Lys Ala Thr Arg	Val Tyr Ala Val Val	Gln Ile Ser Ala Pro Met	
	260	265	270
Phe Leu Leu Trp Ala	Leu Pro Leu Ser Val	Ala Pro Leu Ile Thr Asp	
	275	280	285
Phe Lys Met Phe Val	Thr Thr Ser Tyr Leu	Ile Ser Leu Phe Leu Ile	
	290	295	300
Ile Asn Ser Ser Ala	Asn Pro Ile Ile Tyr	Phe Phe Val Gly Ser Leu	
305	310	315	320
Arg Lys Lys Arg Leu	Lys Glu Ser Leu Arg	Val Ile Leu Gln Arg Ala	
	325	330	335
Leu Ala Asp Lys Pro	Glu Val Gly Arg Asn	Lys Lys Ala Ala Gly Ile	
	340	345	350
Asp Pro Met Glu Gln	Pro His Ser Thr Gln	His Val Glu Asn Leu Leu	
	355	360	365
Pro Arg Glu His Arg	Val Asp Val Glu Thr		
	370	375	

<210> 75
 <211> 321
 <212> PRT
 <213> Mus musculus

<400> 75
 Met Glu Pro Leu Ala Met Thr Leu Tyr Pro Leu Glu Ser Thr Gln Pro
 1 5 10 15
 Thr Arg Asn Lys Thr Pro Asn Glu Thr Thr Trp Ser Ser Glu His Thr
 20 25 30
 Asp Asp His Thr Tyr Phe Leu Val Ser Leu Val Ile Cys Ser Leu Gly
 35 40 45

Leu Ala Gly Asn Gly Leu Leu Ile Trp Phe Leu Ile Phe Cys Ile Lys
 50 55 60

Arg Lys Pro Phe Thr Ile Tyr Ile Leu His Leu Ala Ile Ala Asp Phe
 65 70 75 80

Met Val Leu Leu Cys Ser Ser Ile Met Lys Leu Val Asn Thr Phe His
 85 90 95

Ile Tyr Asn Met Thr Leu Glu Ser Tyr Ala Ile Leu Phe Met Ile Phe
 100 105 110

Gly Tyr Asn Thr Gly Leu His Leu Leu Thr Ala Ile Ser Val Glu Arg
 115 120 125

Cys Leu Ser Val Leu Tyr Pro Ile Trp Tyr Gln Cys Gln Arg Pro Lys
 130 135 140

His Gln Ser Ala Val Ala Cys Met Leu Leu Trp Ala Leu Ser Val Leu
 145 150 155 160

Val Ser Gly Leu Glu Asn Phe Phe Cys Ile Leu Glu Val Lys Pro Gln
 165 170 175

Phe Pro Glu Cys Arg Tyr Val Tyr Ile Phe Ser Cys Ile Leu Thr Phe
 180 185 190

Leu Val Phe Val Pro Leu Met Ile Phe Ser Asn Leu Ile Leu Phe Ile
 195 200 205

Gln Val Cys Cys Asn Leu Lys Pro Arg Gln Pro Thr Lys Leu Tyr Val
 210 215 220

Ile Ile Met Thr Thr Val Ile Leu Phe Leu Val Phe Ala Met Pro Met
 225 230 235 240

Lys Val Leu Leu Ile Ile Gly Tyr Tyr Ser Ser Ser Leu Asp Asp Ser
 245 250 255

Val Trp Asp Ser Leu Pro Tyr Leu Asn Met Leu Ser Thr Ile Asn Cys
 260 265 270

Ser Ile Asn Pro Ile Val Tyr Phe Val Val Gly Ser Leu Arg Arg Lys
 275 280 285

Arg Ser Arg Lys Ser Leu Lys Glu Ala Leu Gln Lys Val Phe Glu Glu
 290 295 300

Lys Pro Val Val Ala Ser Arg Glu Asn Val Thr Gln Phe Ser Leu Pro
 305 310 315 320

Ser

<210> 76
 <211> 377
 <212> PRT
 <213> Homo sapiens

<400> 76
 Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala Leu Gln
 1 5 10 15

Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu
 20 25 30

Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val Val Gly
 35 40 45

Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr Leu Asp
 50 55 60

Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile Ser Ile
 65 70 75 80

Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr Arg Tyr
 85 90 95

Ser Ser Lys Arg Arg Val Thr Val Met Ile Ala Ile Val Trp Val Leu
 100 105 110

Ser Phe Thr Ile Ser Cys Pro Met Leu Phe Gly Leu Asn Asn Thr Asp
 115 120 125

Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr Ser Ser
 130 135 140

Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val Tyr Ile
 145 150 155 160

Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn Thr Lys
 165 170 175

Arg Ser Ser Arg Ala Phe Arg Ala Asn Leu Lys Ala Pro Leu Lys Gly
 180 185 190

Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile Met Lys
 195 200 205

Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala Ala Arg
 210 215 220

Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser Pro Pro
 225 230 235 240

Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln Leu Thr
 245 250 255

Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp Ser Pro
 260 265 270

Ala Lys Pro Glu Lys Asn Gly His Ala Lys Thr Val Asn Pro Lys Ile
 275 280 285

Ala Lys Ile Phe Glu Ile Gln Ser Met Pro Asn Gly Lys Thr Arg Thr
 290 295 300

Ser Leu Lys Thr Met Ser Arg Arg Lys Leu Ser Gln Gln Lys Glu Lys
 305 310 315 320

Lys Ala Thr Gln Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys
 325 330 335

Trp Leu Pro Phe Phe Ile Thr His Ile Leu Asn Ile His Cys Asp Cys
 340 345 350

Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val
 355 360 365

Asn Ser Ala Val Asn Pro Ile Ile Tyr
 370 375

<210> 77
 <211> 164
 <212> PRT
 <213> Homo sapiens

<400> 77
 Gly Asn Ala Val Met Leu Trp Leu Leu Gly Phe Cys Met His Ser Asn
 1 5 10 15

Thr Phe Ser Leu Tyr Ile Leu Asn Leu Ala Arg Ala Asp Phe Leu Cys

20	25	30
Thr Cys Phe Gln Ile Ile Thr Phe Ile Asn Phe Phe Ser Asp Phe Val		
35	40	45
Ser Ser Leu Ser Ile His Phe Ser Arg Phe Val Thr Thr Val Leu Phe		
50	55	60
Ser Ala Cys Ile Thr Gly Leu Ser Met Leu Ser Thr Ile Ser Thr Glu		
65	70	75
His Arg Leu Ser Val Leu Trp Pro Ile Trp Tyr Cys Cys His Cys Pro		
85	90	95
Thr His Leu Ser Ala Val Met Cys Val Leu Leu Trp Ala Leu Ser Leu		
100	105	110
Leu Gln Ser Ile Leu Glu Trp Met Phe Cys Ser Phe Leu Phe Ser Asp		
115	120	125
Val Asp Ser Asp Asn Trp Cys Gln Ile Leu Asp Phe Leu Thr Ala Val		
130	135	140
Trp Leu Ile Phe Leu Ser Val Val Leu Cys Gly Phe Thr Leu Val Leu		
145	150	155
160		
Leu Val Arg Ile		

<210> 78
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 78
Met Thr Glu Phe Leu Leu Gly Gln Pro Phe Phe Leu Tyr Gly Asn Ile
1 5 10 15
Ser Pro Met Tyr Phe Phe Leu Leu Ser Asp Ser Pro Lys Met Val Asp
20 25 30
Leu Thr Ile Ser Cys Met Gln Leu Phe His Glu Leu Met Ala Asp Arg
35 40 45
Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Ile Met Cys Trp Gly Gly
50 55 60

His Gln Pro Phe Cys Gly Pro Asn Ile His Cys Asp Pro Leu Leu Leu
65 70 75 80

Ala Cys Thr Gly Val Asn Ser Gly Phe Leu Ser Tyr Leu Ser Leu Ser
85 90 95

Glu Lys Ala Leu Ser Thr Cys Ser His Val Val Leu Phe Phe Pro Cys
100 105 110

Phe Tyr Pro Asp Lys Ala Phe Ile Pro Leu Asn Pro Ile Tyr Thr Lys
115 120 125

Arg